



Puritan Laundry,
New Philadelphia, Ohio

Site Inspection Report



Division of Environmental Response and Revitalization
Southeast District Office

September 2017



Site Investigation Report

Puritan Laundry

New Philadelphia, Tuscarawas County, Ohio

U.S. EPA ID: OHN000506120
DERR ID: 479001337006
September 2017

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**SITE INVESTIGATION (SI)
REPORT**

For

**Puritan Laundry
New Philadelphia, Tuscarawas County, Ohio
U.S. EPA ID OHN000506120
Ohio EPA Project ID 479001337006**

**OHIO ENVIRONMENTAL PROTECTION AGENCY
Division of Environmental Response and Revitalization
Lazarus Government Center
50 West Town Street
Columbus, Ohio 43216**

September 2017

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1.0 EXECUTIVE SUMMARY

The Ohio Environmental Protection Agency (Ohio EPA) Division of Environmental Response & Revitalization (DERR) entered into a cooperative agreement with the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a Site Investigation (SI) of the Puritan Laundry site (site) located in Tuscarawas County, Ohio.

The purpose of this SI is to assess current site conditions and to evaluate the levels of contaminants and the relative potential threat to site receptors. Data collected will be used to document observed releases, observed contamination and current or potential targets. The information obtained will also be used to evaluate 1) if further assessment is warranted 2) if the Site is of National Priority List (NPL) caliber 3) if referral for emergency response is necessary or 4) can be designated as No Further Remedial Action Planned (NFRAP) and/or the Site should be addressed under other authorities.

The SI work plan was approved by U.S. EPA on July 12, 2016. The sampling was conducted on July 25-28, 2016. Ohio EPA collected 31 samples for laboratory analysis including 11 soil samples and 20 ground water samples. The samples were analyzed through the U.S EPA Contract Laboratory Program (CLP) for volatile organic compounds (VOCs).

Results of the sampling indicate the presence of soil and ground water contamination consisting of chlorinated VOCs at several locations at the former Puritan facility. Results also indicate ground water contamination in a plume that originates at the Puritan facility and extends approximately 2,000 feet southeastward to the City of New Philadelphia wellfield, where low levels of chlorinated VOCs are detected in each of the four production wells.

2.0 SITE BACKGROUND

2.1 Site Description

The former Puritan site is a 2.42-acre property located at 243 6th Street SW, New Philadelphia, Tuscarawas County, Ohio (**Figure 1**). The buildings that comprised the former laundry and dry cleaning facility are no longer present having been destroyed by fire in 1985. The only buildings remaining at the site are a former auto repair garage and adjacent car washing bays. The current property owner is M. Ellen Hicks, Trustee, through a Revocable Trust and Susan Herriott, Co-Trustee. The site is located at the transition between a residential neighborhood located to the north and a commercial/industrial area located to the south and southeast.

The site is situated approximately 2,000 feet to the northwest and hydraulically up-gradient of the New Philadelphia wellfield. The wellfield consists of four (4) ground water supply wells that pump approximately 2.2 million gallons per day from a high yielding, unconfined glacial outwash aquifer comprised of sand and gravel deposits located along the Tuscarawas River. The wells are 120' deep and screened from 60 – 120'.

2.2 Site History

The Puritan Laundry and Dry Cleaning Company operated from the early 1900s to 1985. On August 30, 1985, a fire destroyed the Puritan Laundry building and its contents. According to an August 1987 U.S. EPA Potentially Responsible Party Search Report (Jacobs Engineering Group, Inc.) completed for the New Philadelphia Wellfield Site, the president of Puritan, William Hicks (deceased former owner and operator), stated that the facility used approximately 50 gallons of tetrachloroethylene (PCE) annually from 1975 to 1985. The company received the solvent in cartridges from M&L Company in Akron, Ohio and from Ashland Refinery. Prior to using PCE, Puritan Laundry used Stoddard solvent (mineral spirits) which was delivered in tanker trucks and pumped into drums.

2.3 Previous Site Work

Since the initial detection of PCE in the New Philadelphia drinking water supply over 30 years ago, various site investigations have been conducted by State and local authorities to identify the source(s) of contamination to the wellfield. A summary of these activities is provided below.

1981

In 1981, the City of New Philadelphia wellfield began detecting VOCs in both its

production wells and finished water. The primary contaminant was trichloroethylene (TCE), but additional compounds included 1,1,1-trichloroethane (1,1,1-TCA); 1,1-dichloroethene (1,1-DCE); cis- and trans- 1,2-dichloroethylene (1,2-DCE); and PCE. The levels of TCE were as high as 51 µg/L in production wells (Well 2) and as high as 28 µg/L in the finished water distribution system, significantly higher than the MCL of 5 µg/L (though at the time, the federal MCL had not yet been established).

1984

In 1984, the Gradall manufacturing facility implemented an investigation to attempt to locate the source of the PCE ground water contamination.

As part of the investigation, 14 test pits were installed at the Gradall facility, located to the west of the wellfield and southeast of the Puritan site (see **Figure 4**). The test pits were installed by Gradall at the request of Ohio EPA, and were excavated to a depth of 1 to 2 feet below the water table. Analysis of water samples collected from the bottom of the excavations indicated detections of TCA, 1,1-Dichloroethane (DCA), trans-1,2-DCE, TCE and vinyl chloride. The summary and conclusions from the 1984 report indicated that the PCE contaminant plume was migrating through the Gradall property from an up-gradient source. Under the influence of the ground water gradient produced by the wellfield, the contaminant plume was impacting the New Philadelphia municipal wells southeast of the Gradall facility.

1985

At the request of Ohio EPA, Gradall installed three monitoring wells at their facility. The ground water sampling showed that MW-1, located up-gradient of the manufacturing facility and on the western corner of the property, was contaminated with a variety of VOCs, though only the level of TCE (13 µg/L) exceeded an MCL. MW-2, located to the southeast and down-gradient of the property, contained TCA, TCE, and PCE at concentrations less than the respective MCLs. MW-3, located to the east of the facility along the eastern edge of the property, did not contain detectable levels of contaminants. The conclusion from the investigation was that the source of contamination for the PCE plume was up-gradient of the Gradall facility and the contaminants were migrating with the natural ground water flow under the Gradall property.

1986

In 1986, Joy Technologies was notified by the City of New Philadelphia that TCE had been detected in ground water pumped from the municipal supply wells. The city had retained the Ohio Drilling Company to evaluate the potential sources of TCE and to develop a plan for removing the TCE from the municipal water supply. As part of its field investigation, Ohio Drilling collected and analyzed soil and ground water samples in the vicinity of the wellfield, including two locations on Joy's property. The results reported by Ohio Drilling included the finding that "the VOCs at the wellfield appear to originate from at least two distinct sources." The report suggested that one of the sources was located to the north of the wellfield and another to the west of the

wellfield. The results indicated that TCE and other VOCs were detected in the ground water beneath the Joy property (north) and beneath or near the Gradall property (west).

1988

In 1988, the city installed two air strippers at the water treatment plant to ensure that the potable water met drinking water standards.

2000

Ohio EPA installed Geoprobe® borings along Mill Avenue directly north of the Gradall facility, and along the edge of the city wellfield directly east of Gradall. Three discrete ground water samples were collected from each of the nine borings and submitted for laboratory analysis for VOCs. Results of the investigation indicated that one of the highest concentrations of ground water VOCs (specifically, PCE at 494 µg/L) was found at boring GP-5A, located north (and upgradient) of the Gradall facility along Mill Avenue. Tetrachlorethene was also detected in five additional borings. The data indicated that the contamination present in ground water beneath the Gradall property was migrating from a source, or sources, up-gradient of Gradall.

Results from the 2000 investigation suggested a possible link between the PCE plume of contamination at the New Philadelphia wellfield and the former Puritan site.

2001

Ohio EPA contracted the drilling of 18 cone penetrometer borings and Ohio EPA's Geoprobe® completed 7 direct-push borings to perform additional in-situ ground water sampling. Twelve borings were located on the eastern end of the Gradall property and at the city wellfield. Seven of the borings were located on or near the Puritan property. Ground water results provided additional data defining the horizontal and vertical extent of the PCE plume. Samples collected north and west of the Puritan property had no PCE detections. A shallow ground water sample collected on the Puritan property contained 434 µg/L of PCE. Three shallow soil samples collected from the Puritan property detected PCE at concentrations as high as 214 µg/kg. Results of the ground water samples collected from multiple depths in each cone penetrometer boring revealed that the highest levels of ground water contamination at the Puritan property are found near the water table. As the contaminants migrate within the ground water to the southeast (the direction of ground water flow), higher contaminant levels are found at intermediate depths, approximately 15-20 feet below the water table.

Data generated during the 2001 investigation provided further indication that the Puritan property was a potential source of the PCE plume. The data from this investigation was included in the Preliminary Assessment Report for Puritan Laundry.

2014

Ohio EPA sampled ground water from seven piezometers located along the western

border of the City of New Philadelphia's wellfield. These piezometers were located approximately 400 feet west of the city's public water wells and directly to the east of the Gradall industrial property. Results of this monitoring demonstrated that PCE concentrations ranged as high as 132 µg/L in the upper ground water zone (20-foot depth) and as high as 66.5 µg/L in a lower ground water zone (40-foot depth).

Figure 4 depicts the cumulative results of the 2000, 2001, and 2014 ground water sampling events, with an approximation of the boundary of the PCE plume as it is believed to exist between the Puritan property and the New Philadelphia wellfield.

2015

An October 19, 2015 phone interview with Ed Wilson, Water Superintendent – City of New Philadelphia, verified that although concentrations of chlorinated VOCs have generally decreased in the raw water supply since they were first detected in the 1980s, the contaminants are still detected within the city's raw water supply and are removed through the treatment plants' air stripper system prior to distribution. Finished water has continued to meet MCLs, and it is not uncommon for lab results to be non-detect for all contaminants. It is also noteworthy that the 2015 Annual Report for the Joy Technologies site presents an historical graph for PCE at city well No. 4, and shows that the concentration in well No. 4 has steadily increased from approximately 2 µg/L in 2002 to just below the MCL of 5 µg/L in 2015.

A Pre-CERCLA screening (PCS) assessment was conducted on the site by Ohio EPA under a grant from U.S. EPA. A draft PCS assessment report was submitted to U.S. EPA on October 20, 2015. The report recommended further assessment of the site and inclusion of the site in the Superfund Enterprise Management System (SEMS). The PCS assessment report was approved for further action under CERCLA by U.S. EPA on January 7, 2016.

A preliminary assessment (PA) of the site was completed by Ohio EPA in January 2016 with a recommendation to conduct a site inspection (SI); the PA was approved by U.S. EPA on June 22, 2016.

A work plan was developed for the SI, which was approved by U.S. EPA on July 12, 2016. The SI field work was implemented July 25-28, 2016.

2.4 Site Geology & Hydrology

The subsurface geologic materials in the vicinity of the former Puritan site consist of a thick unit of unconsolidated sand and gravel deposits of the Tuscarawas River buried valley aquifer. The unit is capped by finer textured deposits of silt, fine sand, and trace amounts of clay. The finer-grained deposits typically transition to the coarser sand and gravel at depths between 10 and 20 feet below ground surface. Under the nearby Joy Technologies facility, the cumulative thickness of the unconsolidated deposits was

measured at approximately 200 feet based on the installation of deep monitoring wells. At the Puritan property, which is located on a terrace 15-20 feet higher in elevation than the New Philadelphia wellfield, ground water occurs at depths of approximately 30 feet below ground surface. The depth to water becomes shallower in the direction of the wellfield, where it is approximately 15 feet below ground surface (bgs).

Pumping tests completed at the New Philadelphia wellfield in 1987 indicated very high values of hydraulic conductivity (K) for the aquifer, on the order of 1.38×10^{-1} cm/sec. The ground water flow velocities below the Joy Technologies facility have been calculated to be on the order of 850 feet/year. Regional ground water flow is approximately northwest to southeast, and is influenced locally by the pumping of the New Philadelphia wellfield and the Tuscarawas River.

The bedrock that lies beneath the thick alluvial aquifer consists of shales, sandstones, conglomerates, claystones, coals, iron ores, and limestone of the Pennsylvanian-aged Allegheny and Pottsville formations.

Borings completed at the former Puritan facility generally encountered fine sand grading to fine gravel in the zone from ground surface to 12 feet in depth. Some zones of silt were encountered within the upper four feet, and one boring encountered a one-foot-thick layer of silty clay at a depth of approximately eight feet. Boring logs are included in **Appendix B**.

Ground water was encountered at approximately 30 feet bgs on the former Puritan facility, with off-site ground water encountered at depths ranging from 12- 20 feet bgs. Ground water flow direction at the facility is presumed to be toward the southeast and the New Philadelphia wellfield and the Tuscarawas River.

3.0 SAMPLING LOCATIONS & DISCUSSION OF RESULTS

A total of 31 samples, including duplicates, were collected July 25-28, 2016. Sample locations can be found on the Sample Location Maps, **Figures 2 and 3**. Standard Quality Assurance and Quality Control (QA/QC) procedures for SI field activities were followed during the investigation. These procedures are documented in the Quality Assurance Project Plan (QAPP) for Region 5 Superfund Site Assessment activities for Ohio EPA and in Ohio EPA's Field Standard Operating Procedures.

The samples were sent to U.S. EPA Contract Laboratory Program (CLP) laboratories for analysis. All samples were analyzed for Volatile Organic Compounds.

The organic sample results are reported in the units of micrograms per liter ($\mu\text{g}/\text{L}$) or micrograms per kilogram ($\mu\text{g}/\text{kg}$) which is equivalent to parts per billion (ppb). The CLP data were reviewed and validated by U.S. EPA Region 5. The complete analytical results of this investigation are located in **Appendix C**.

Significant findings based on these data are summarized in **Tables 1-3**. Under the Hazard Ranking System Rule, results are considered significant if they are at least three times the background sample result and above the Contract Required Quantitation Limit (CRQL). Results above the CRQL, that have been flagged as estimated (J) after U.S.EPA validation, have been adjusted according to the U.S. EPA fact sheet *Using Qualified Data to Document an Observed Release and Observed Contamination*; EPA 540-F-94-028, November 1996. The adjusted data in **Tables 1-3** below are in parentheses.

3.1 Geoprobe® Ground Water Grab Samples

Grab ground water samples were collected from 13 of the 14 soil borings using a Geoprobe® screen-point sampler with disposable screens installed at the target depth. Ground water samples were designated with a "GW" prefix and the same number as the corresponding boring from which they were collected.

The ground water samples were collected using the polyethylene tubing/check ball method in accordance with Ohio EPA DERR FSOP 2.2.4. Ground water was dispensed from the sample tubing into clean laboratory containers and preserved as necessary. Ground water samples were collected for analysis of VOCs only.

GW-BK1 was considered the background ground water location for this investigation. It was collected approximately 80 feet northwest of the site in the public right of way. No volatiles were detected at this sample location.

Ground water samples were collected from an additional 12 locations from soil borings at the former facility and within the ground water contaminant plume. Significant concentrations of PCE, and lesser amounts of trichloroethylene and cis-1,2-DCE were detected in the ground water samples collected from several borings as listed in the

significant hits Table 1, in **Appendix D**. The highest concentration of PCE (130 µg/L) was detected in ground water sample GP5-GW, collected from the central portion of the site. Tetrachloroethylene, at a concentration of 130 µg/L, was also detected in the direct-push boring ground water sample GP12-GW at the New Philadelphia wellfield. Samples with various concentrations ranging from 11 µg/L to 120 µg/L were detected in ground water samples located between the site and the wellfield (**Figure 2**). See **Appendix D, Table 1** for a significant hits summary and sample depths.

3.2 Production Well Samples

In addition to samples collected from the direct-push borings, raw ground water samples were also collected from each of the four production wells at the New Philadelphia wellfield. Each well was allowed to run for at least five minutes prior to sample collection. Samples were obtained from ports located at each wellhead and were preserved as necessary for VOC analysis.

Ground water samples collected from the four New Philadelphia production wells also contained detectable concentrations of PCE, TCE, and cis-1,2-DCE. Tetrachloroethylene was detected in three production wells as high as 4.6 µg/L. The ground water production well sample significant hit results are located in **Table 2**.

3.3 Soil Samples

Eleven soil samples were collected with the Geoprobe® at seven boring locations located at or near the former Puritan Laundry site. At each boring location, soil samples with the highest PID screening levels were collected from two depth intervals. The boring number was indicated by a GP# prefix. Samples collected in the shallow zone (0-2') were indicated by S1 and deeper samples (> 2 feet) were indicated by S2. If there were no elevated PID readings within the boring interval, no samples were collected from that boring interval. Two background soil samples, SO-BKG1 (0-2') and SO-BKG2 (11'-12') were collected approximately 80 feet northwest of the site along a residential right of way. There were no volatile compounds detected in either background sample.

Significant soil sample results can be found in **Table 3**. PCE was detected in two of the soil borings located on-site. The highest concentration was found in sample GP8-S1 with a result of 66 µg/kg at a depth of 0-2 feet. This sample location was near the center of the site. In the same boring location, PCE was found at 47 µg/kg at 7-8 feet in depth. PCE at a concentration of 23 µg/kg was found in sample GP6-S2 at a depth of 11-12 feet. Traces of acetone and xylene were found in the same sample.

4.0 MIGRATION PATHWAYS

4.1 Ground Water Pathway

The City of New Philadelphia has four public water supply wells located approximately 2,000 feet southeast of the site. These four wells serve 17,288 people in the New Philadelphia area. Several smaller community and non-community public water systems exist between 1.9 miles and 3.4 miles from the site. These smaller public water supplies serve a total of 1,713 people. The Village of Midvale operates three public water supply wells that serve 2,376 people and are located approximately 3.7 miles from the site. The City of Dover operates five public water supply wells located between 3.7 and 3.8 miles from the site, serving 12,826 people. There are no residential wells within 2,000 feet of the site. However, there are numerous residential wells located between 2,000 and 3,000 feet southwest from the site, to the south of the Tuscarawas River. The Target Maps and data package included as **Appendix E** provides additional information on the population surrounding the site.

Tetrachloroethylene was detected at a significant concentration of 130 µg/L on-site and at the New Philadelphia wellfield (see **Appendix D**, Significant Hits Tables). Varying levels of this compound (11 µg/L to 120 µg/L) found at other sample locations between the site and the wellfield indicate that concentrations are highly variable within the plume. All detections were greater than 3 times background and all detections of PCE were above the CRQL level of 5.0 µg/L. MCL's were exceeded for PCE and TCE at all sample locations.

It is possible that concentrations of PCE within the aquifer vary with depth, but due to the scoping restraints for the SI, the collection of multi-depth ground water samples was not possible. Ground water flow is roughly to the southeast. Ohio EPA's Drinking Water Source Assessment report indicates that the site is within the 5-year time of travel source water protection area for the New Philadelphia wellfield.

There is a completed exposure pathway and documented observed release between the site and the New Philadelphia production wells based on production well and on-site ground water results.

4.2 Soil Exposure Pathway

There is a potential soil exposure pathway in the vicinity of the former Puritan Laundry facility. The property is currently vacant however access to the former Puritan Laundry facility is completely unrestricted. The primary chemical of concern (COC) in this area is PCE. There is a potential for direct contact exposure to COC's in this area when people walk across the site unrestricted. PCE was detected at 66 µg/kg in on-site soil less than two feet in depth, indicating observed contamination. This level was greater than three

times background and above the CRQL of 5 µg/kg.

In addition, the detection of PCE indicates a vapor intrusion pathway could exist through migration of the contaminant through soil gas to nearby residences. However, no sampling has been performed to evaluate this pathway.

No schools or daycares exist within 200 feet of the site. There are no workers on-site. Total population within 4 miles is 34,117 people. There are 988 people that live within $\frac{1}{4}$ mile of the site. See table below.

Population Data within a 4-mile radius

Radius	Total
0-0.25	988
0.25-0.50	2,451
0.5-1.0	8,309
1.0-2.0	8,254
2.0-3.0	7,203
3.0-4.0	6,912
Total	34,117

4.4 Surface Water Pathway

The Tuscarawas River is located approximately 1,000 feet south of the Site, however, the surface water pathway was not evaluated during this investigation.

4.5 Air Pathway

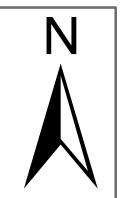
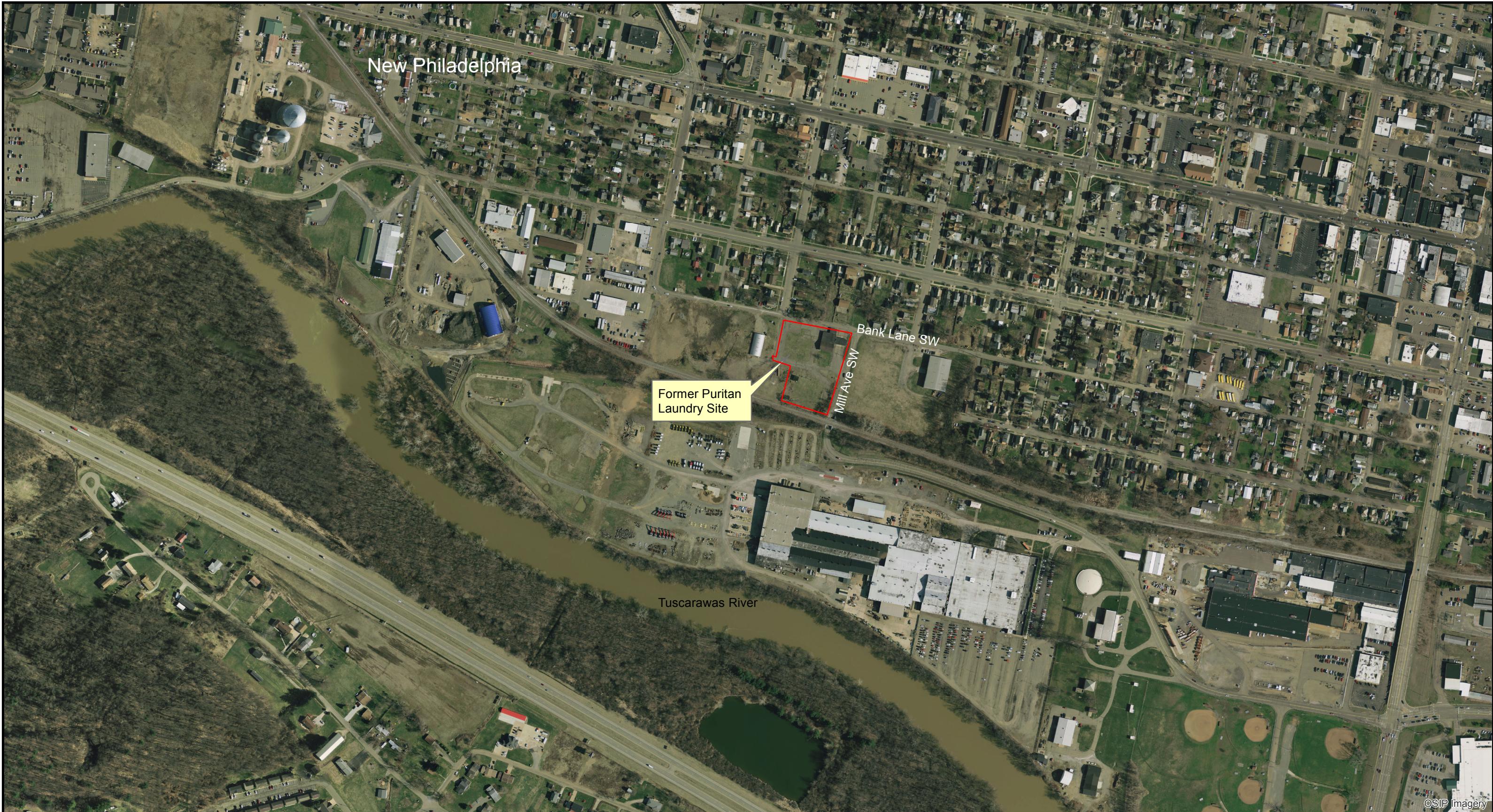
The air pathway was not evaluated during this investigation.

5.0 SUMMARY

The Puritan Laundry site, a former laundry and dry cleaning operation, is located in an industrial/commercial/residential area of New Philadelphia, Ohio. The sampling data obtained historically, and from this SI, found PCE contamination in both on-site soils and shallow ground water. Soil contamination, less than two feet in depth, was found on-site. The site is not fenced and is accessible to trespassers.

PCE contamination of ground water at the New Philadelphia wellfield can be attributed to the Puritan site. The Puritan site contaminants consist of PCE and PCE's breakdown products of TCE and cis-1,2-DCE. TCE is found in the raw water of PW-2 at a concentration above the MCL of 5 µg/L while PCE hovers near its MCL of 5 µg/L in PW-4. However, the TCE can be partially attributed to Joy Technologies. In order to provide a source of safe drinking water, the city installed two air strippers in 1988. The ground water beneath the Site is moving to the southeast toward the wellfield. Surrounding properties are connected to the City of New Philadelphia's municipal water system, which lies within the plume of PCE contamination extending approximately 2,000 feet southeast of the site.

APPENDIX A



Puritan Laundry
Figure 1
Site Location Map
New Philadelphia, Ohio

250 125 0 250 500 750 1,000
Feet



Puritan Laundry

Figure 2
Ground Water Sample Location Map
Tetrachloroethene Detections
New Philadelphia, Ohio
July 26, 2016

Legend

● Geoprobe Groundwater



Puritan Laundry
Figure 3
Soil Sample Location Map
New Philadelphia, Ohio
July 26, 2016

Legend

- Geoprobe Soil



Figure 4

APPENDIX B

Ohio Environmental Protection Agency

4675 Homer-OHio Lane

Groveport, OH 43125

Telephone: (614) 836-8760, Fax: (614) 836-8795

Edward.Link@epa.ohio.gov

Puritan Laundry, Former

243 6th Street, SW

New Philadelphia, OH 44663

Tuscarawas County, SEDO

Project No./Type: 479-00-1337/RR Federal

DERR-SIFU

Soil Boring Log

GP-04

Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488532° / Long 81.456790°, for GP4-S1, 2,258,704.186 908,111.431 Feet

GROUND ELEVATION: ~885 ft. a.m.s.l.

TOC ELEVATION: NA

DRILLING SERVICES: Ohio EPA--SIFU

START DATE: 7/26/16

COMPLETION DATE: 7/26/16

DRILLER: Karl Reinbold, Jeff Wander

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) to 12' D. Direct Push of Geoprobe GW Sampler to 34' D; screened 30-34' D.

LOGGED BY: Kevin O'Hara, SEDO-DDAGW

GROUND WATER LEVELS

DIAMETER (in): ~2.125 OD

TOTAL DEPTH (ft): 34

REFUSAL (ft): NA

Date

Time

Depth (ft)

Notes

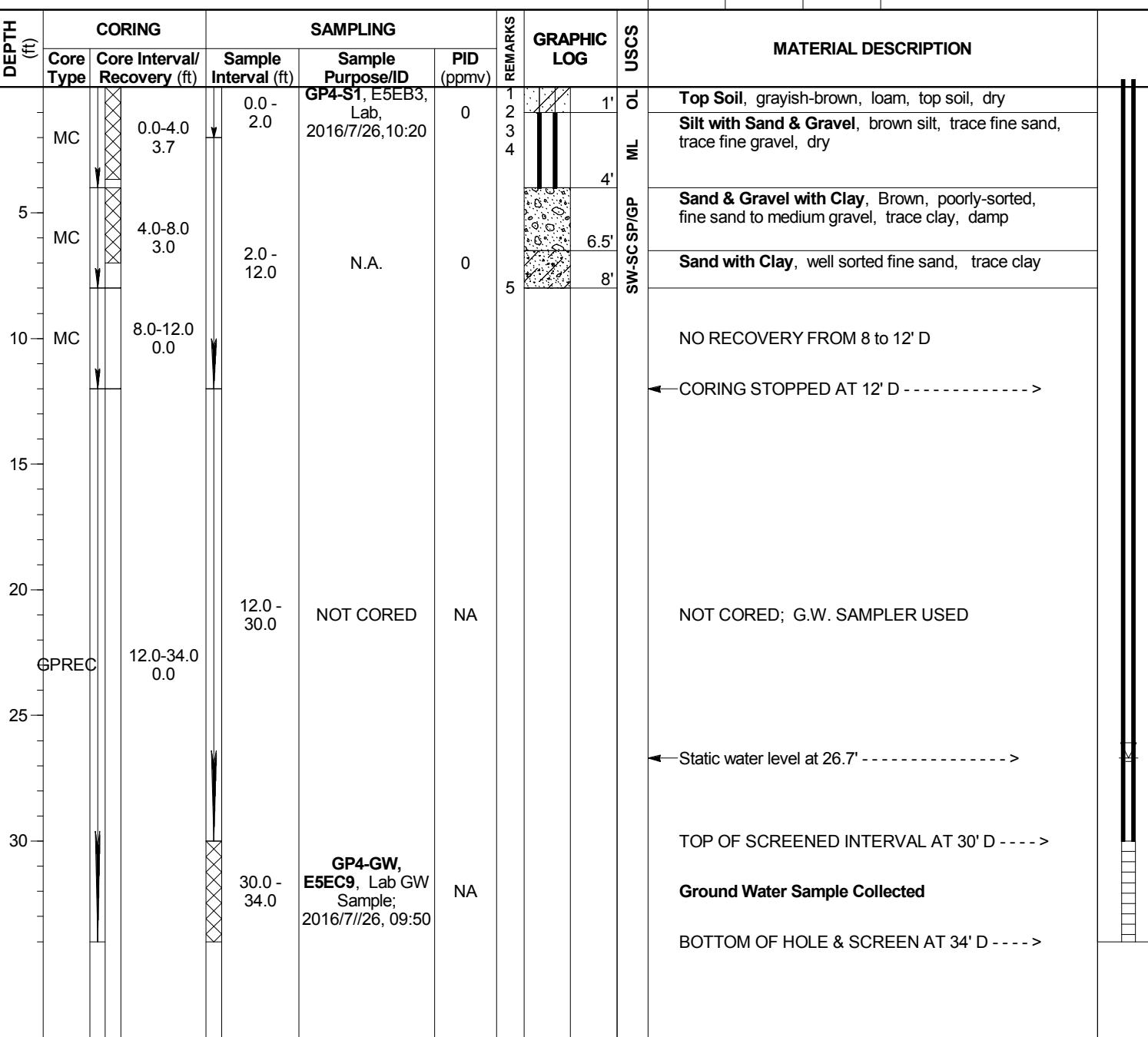
NOTES: Check-valve method used to extract water. No MW was installed. Backfilled with granular bentonite.

07/26/16

09:50

26.70

static level



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
- GENERAL NOTE: Borings completed & sampled using a Geoprobe® Direct-Push Model 5410 mounted on Ford F-450 flatbed.
- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Geoprobe® log book, "GP4-GW -- Pushed to 34' for GW. VOAs only. (30-34' screen). Water 26.7'. GP-4-SO -- MC's to 12' for soil sample (poor recovery 8-12')."

Ohio Environmental Protection Agency

4675 Homer-OHio Lane

Groveport, OH 43125

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Puritan Laundry, Former

243 6th Street, SW

New Philadelphia, OH 44663

Tuscarawas County, SEDO

Project No./Type: 479-00-1337/RR Federal

DERR-SIFU

Soil Boring Log

GP-05

Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488590° / Long 81.456911°, for GP5-S1, 2,258,670.255 908,132.381 Feet

GROUND ELEVATION: ~885 ft. a.m.s.l.

TOC ELEVATION: NA

DRILLING SERVICES: Ohio EPA--SIFU

START DATE: 7/26/16

COMPLETION DATE: 7/26/16

DRILLER: Karl Reinbold, Jeff Wander

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) to 12' D. Direct Push of Geoprobe GW Sampler to 34' D; screened 30-34' D.

LOGGED BY: Kevin O'Hara, SEDO-DDAGW

GROUND WATER LEVELS

DIAMETER (in): ~2.125 OD

TOTAL DEPTH (ft): 34

REFUSAL (ft): NA

Date

Time

Depth (ft)

Notes

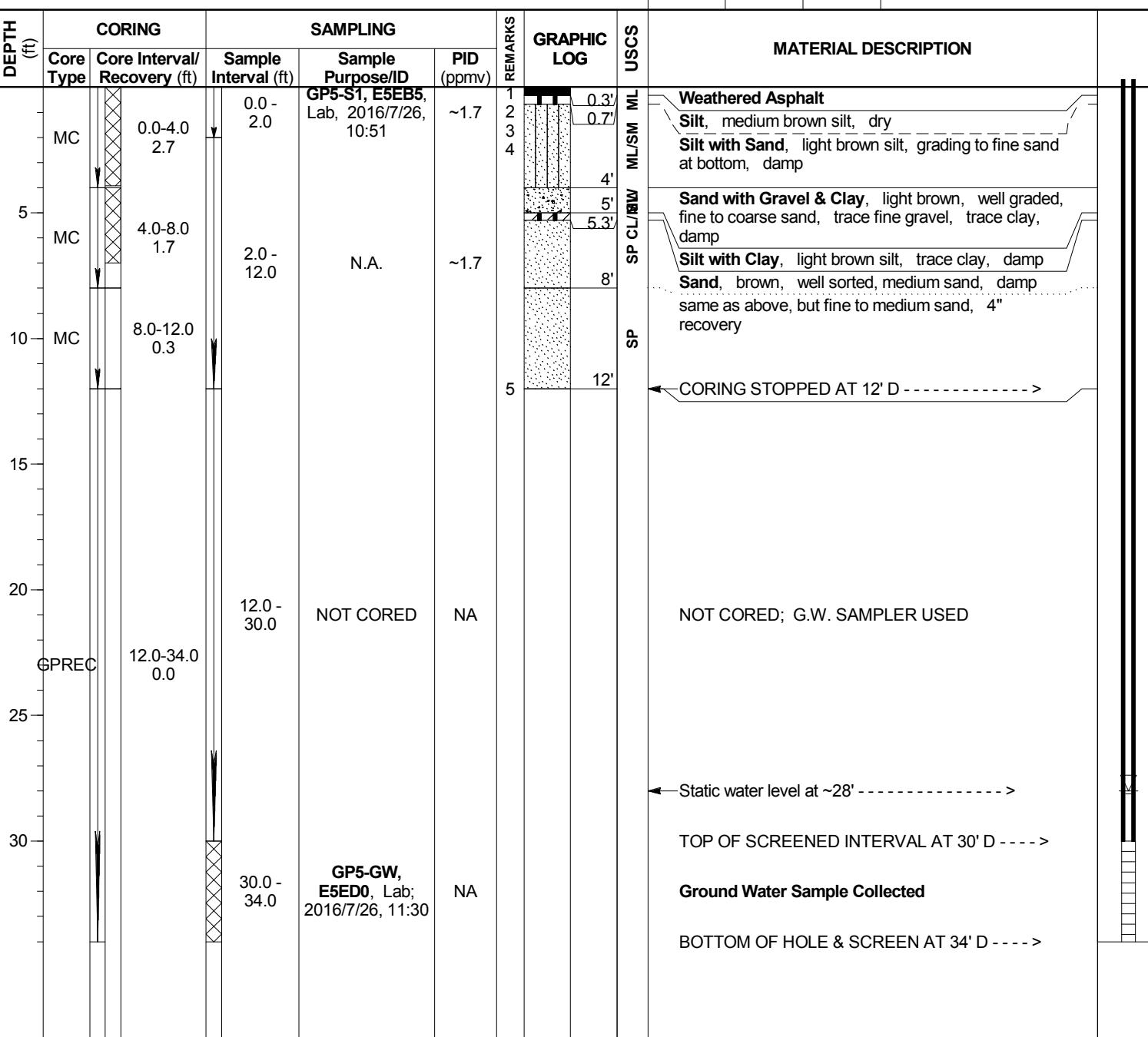
NOTES: Check-valve method used to extract water. No MW was installed. Backfilled with granular bentonite.

07/26/16

11:30

28.00

approx. static level



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
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- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Geoprobe® log book, "GP5-SO -- MC's to 12' bgs for soil. PID ~1700 ppb. GP5-GW -- pushed to 34' bgs (30-34' screen) for VOCs only. Water ~28' bgs."

Ohio Environmental Protection Agency

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Puritan Laundry, Former

243 6th Street, SW

New Philadelphia, OH 44663

Tuscarawas County, SEDO

Project No./Type: 479-00-1337/RR Federal

DERR-SIFU

Soil Boring Log

GP-06

Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488616° / Long 81.457173°, for GP6-S1/S2, 2,258,597.415 908,141.025 Feet

GROUND ELEVATION: ~885 ft. a.m.s.l.

TOC ELEVATION: NA

DRILLING SERVICES: Ohio EPA--SIFU

START DATE: 7/26/16

COMPLETION DATE: 7/27/16

DRILLER: Karl Reinbold, Jeff Wander

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) to 12' D. Direct Push of Geoprobe GW Sampler to 36' D; screened 32-36' D.

LOGGED BY: Kevin O'Hara, SEDO-DDAGW

GROUND WATER LEVELS

DIAMETER (in): ~2.125 OD

TOTAL DEPTH (ft): 36

REFUSAL (ft): NA

Date

Time

Depth (ft)

Notes

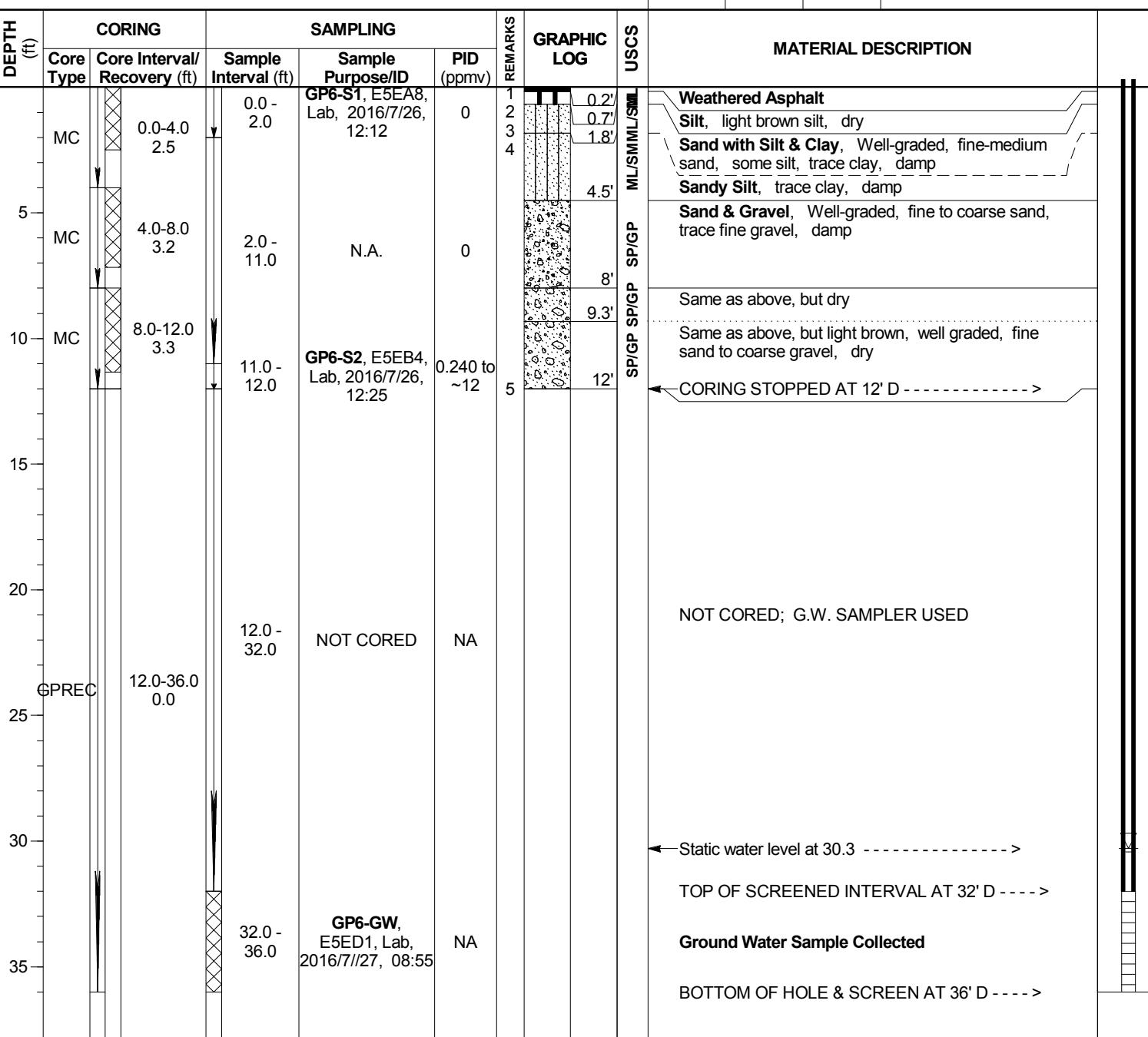
NOTES: Check-valve method used to extract water. No MW was installed. Backfilled with granular bentonite.

07/27/16

08:55

30.30

static level



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
- GENERAL NOTE: Borings completed & sampled using a Geoprobe® Direct-Push Model 5410 mounted on Ford F-450 flatbed.
- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Geoprobe® log book, "GP6-SO -- MC's to 12' bgs for soils. PID ~12,000 ppb increasing. GP-6-GW -- pushed to 36' bgs for GW (32-36' screen). Water 30.3' bgs."

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DERR-SIFU

Soil Boring Log

GP-07

Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488360° / Long 81.456647°, for GP7-S1, 2,258,744.881 908,049.267 Feet

GROUND ELEVATION: ~885 ft. a.m.s.l.

TOC ELEVATION: NA

DRILLING SERVICES: Ohio EPA--SIFU

START DATE: 7/26/16

COMPLETION DATE: 7/28/16

DRILLER: Karl Reinbold, Jeff Wander

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) to 12' D. Direct Push of Geoprobe GW Sampler to 34' D; screened 30-34' D.

LOGGED BY: Kevin O'Hara, SEDO-DDAGW

GROUND WATER LEVELS

DIAMETER (in): ~2.125 OD

TOTAL DEPTH (ft): 12

REFUSAL (ft): NA

Date

Time

Depth (ft)

Notes

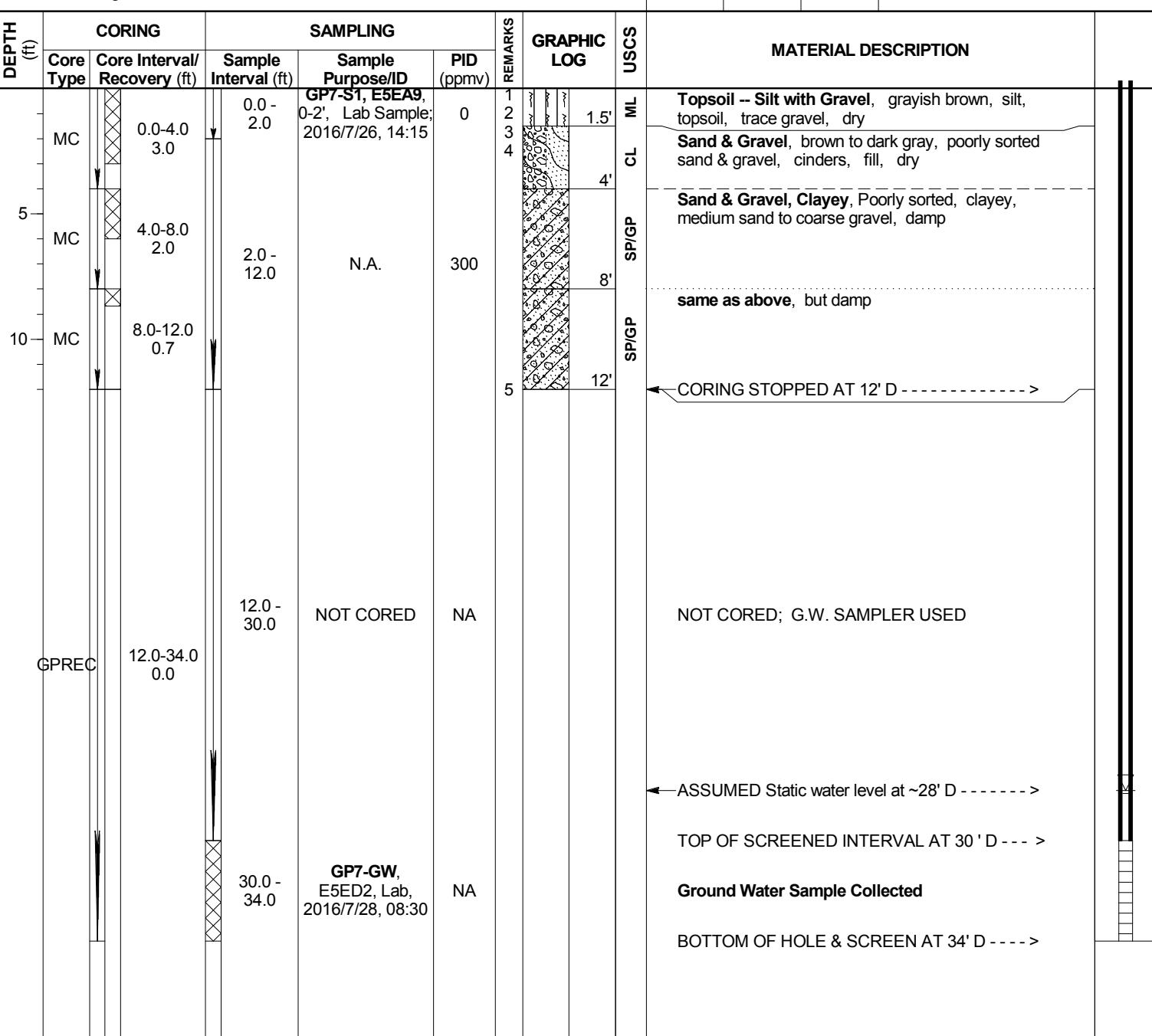
NOTES: Check-valve method used to extract water. No MW was installed. Backfilled with granular bentonite.

07/28/16

08:30

28.00

ASSUMED DEPTH



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
- GENERAL NOTE: Borings completed & sampled using a Geoprobe® Direct-Push Model 5410 mounted on Ford F-450 flatbed.
- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Geoprobe® log book, "GP7-SO -- MC's to 12' bgs for soils. GP7-GW -- Push to 34' for GW (30-34' screen). PID @ 10 bgs = 300 PPM increasing."

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DERR-SIFU
Soil Boring Log
GP-08
 Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488497° / Long 81.456868°, for GP8-S1/S2 & SO-DUP1, 2,258,682.688 908,098.636 Feet

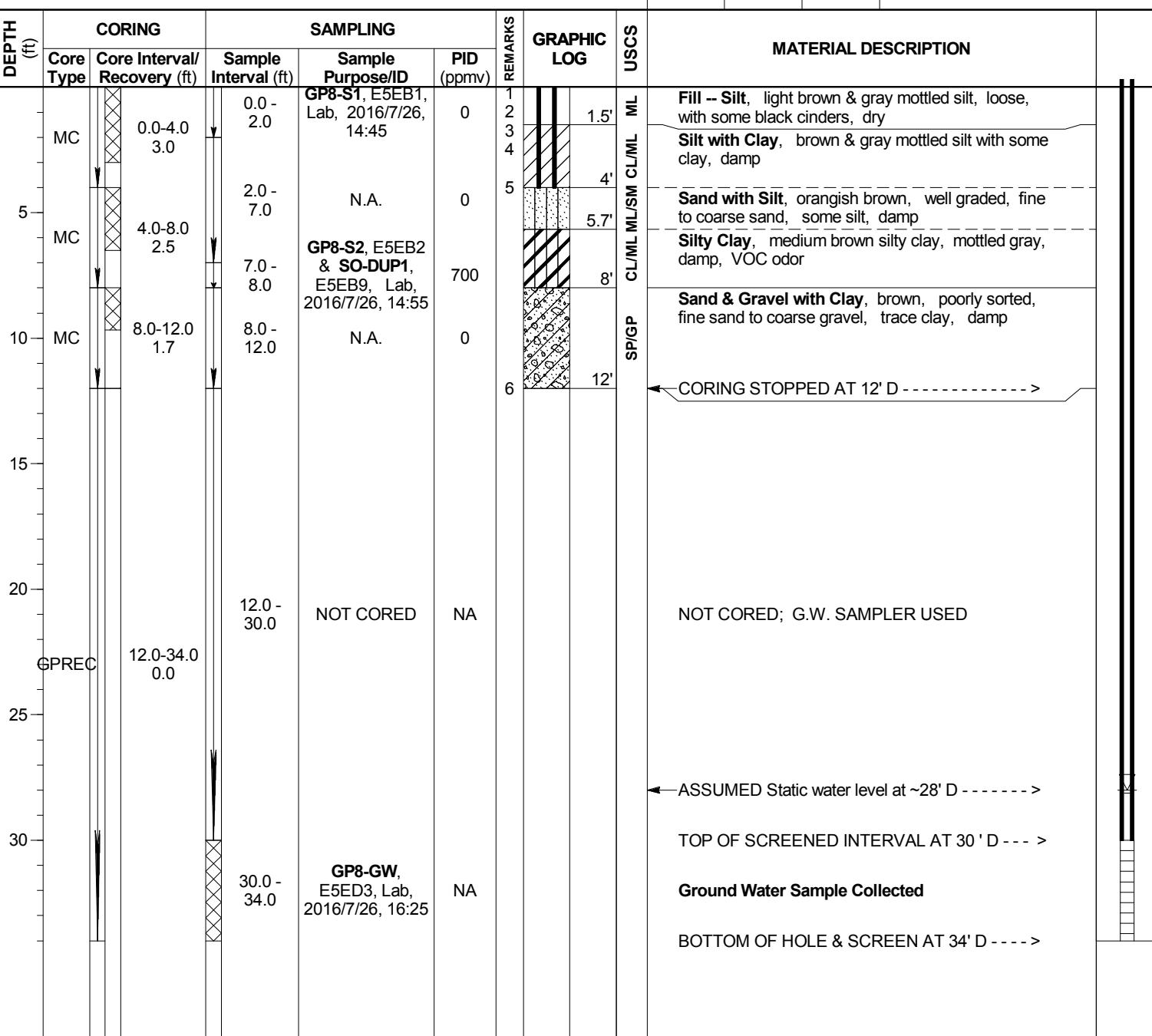
GROUND ELEVATION: ~885 ft. a.m.s.l.	TOC ELEVATION: NA	DRILLING SERVICES: Ohio EPA--SIFU
--	--------------------------	--

START DATE: 7/26/16	COMPLETION DATE: 7/26/16	DRILLER: Karl Reinbold, Jeff Wander
----------------------------	---------------------------------	--

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) to 12' D. Direct Push of Geoprobe GW Sampler to 34' D; screened 30-34' D.	LOGGED BY: Kevin O'Hara, SEDO-DDAGW
---	--

DIAMETER (in): ~2.125 OD	TOTAL DEPTH (ft): 34	REFUSAL (ft): NA	Date:	Time:	Depth (ft):	Notes:
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NOTES: Check-valve method used to extract water. No MW was installed. Backfilled with granular bentonite.	07/26/16	16:25	28.00	▽	ASSUMED DEPTH
---	----------	-------	-------	---	---------------



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
- GENERAL NOTE: Borings completed & sampled using a Geoprobe® Direct-Push Model 5410 mounted on Ford F-450 flatbed.
- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Field Boring Log Sheet, "Very hard probing 4' - 34'."
- Per Geoprobe® log book, "GP8-SO -- MC's to 12' bgs for soils. PID 220 PPM @ 8' bgs. GP8-GW -- pushed to 34' bgs for GW (30--34' screen)."

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Project No./Type: 479-00-1337/RR Federal

DERR-SIFU

Soil Boring Log

GP-09

Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488499° / Long 81.456839°, for GP9-S1, 2,258,690.808 908,099.202 Feet

GROUND ELEVATION: ~885 ft. a.m.s.l.

TOC ELEVATION: NA

DRILLING SERVICES: Ohio EPA--SIFU

START DATE: 7/26/16

COMPLETION DATE: 7/26/16

DRILLER: Karl Reinbold, Jeff Wander

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) cores down to 12' D. No ground water sample was collected.

LOGGED BY: Kevin O'Hara, SEDO-DDAGW

GROUND WATER LEVELS

DIAMETER (in): ~2.125 OD

TOTAL DEPTH (ft): 12

REFUSAL (ft): NA

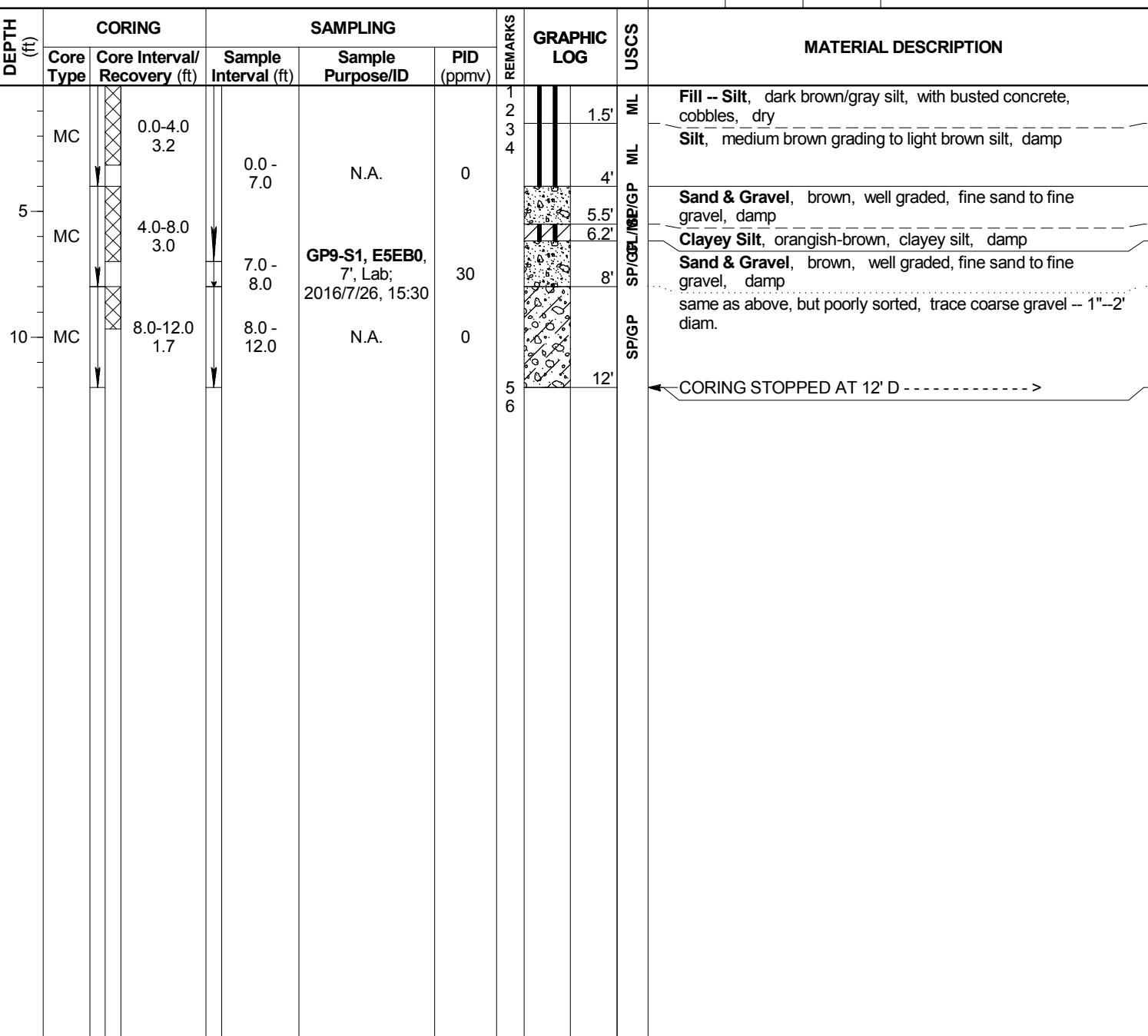
Date

Time

Depth (ft)

Notes

NOTES: Backfilled with granular bentonite.



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
- GENERAL NOTE: Borings completed & sampled using a Geoprobe® Direct-Push Model 5410 mounted on Ford F-450 flatbed.
- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Geoprobe® log book, "GP9-SO -- MC's to 12' bgs for soils."
- Per Field Boring Log Sheet, "No ground water sample due to proximity to GP8."

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Project No./Type: 479-00-1337/RR Federal

DERR-SIFU

Soil Boring Log

GP-BKG1 & 2 [BKG]

Page 1 of 1

LAT/LONG and/or LOCATION DESCRIPTION: Lat 40.488953° / Long 81.457286°, for GP-BKG1 & 2, 2,258,564.509 908,263.241 Feet

GROUND ELEVATION: ~885 ft. a.m.s.l.

TOC ELEVATION: NA

DRILLING SERVICES: Ohio EPA--SIFU

START DATE: 7/26/16

COMPLETION DATE: 7/27/16

DRILLER: Karl Reinbold, Jeff Wander

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Macro-Core® (MC) to 12' D. Direct Push of Geoprobe GW Sampler to 35' D; screened 31-35' D.

LOGGED BY: Kevin O'Hara, SEDO-DDAGW

GROUND WATER LEVELS

DIAMETER (in): ~2.125 OD

TOTAL DEPTH (ft): 35

REFUSAL (ft): NA

Date

Time

Depth (ft)

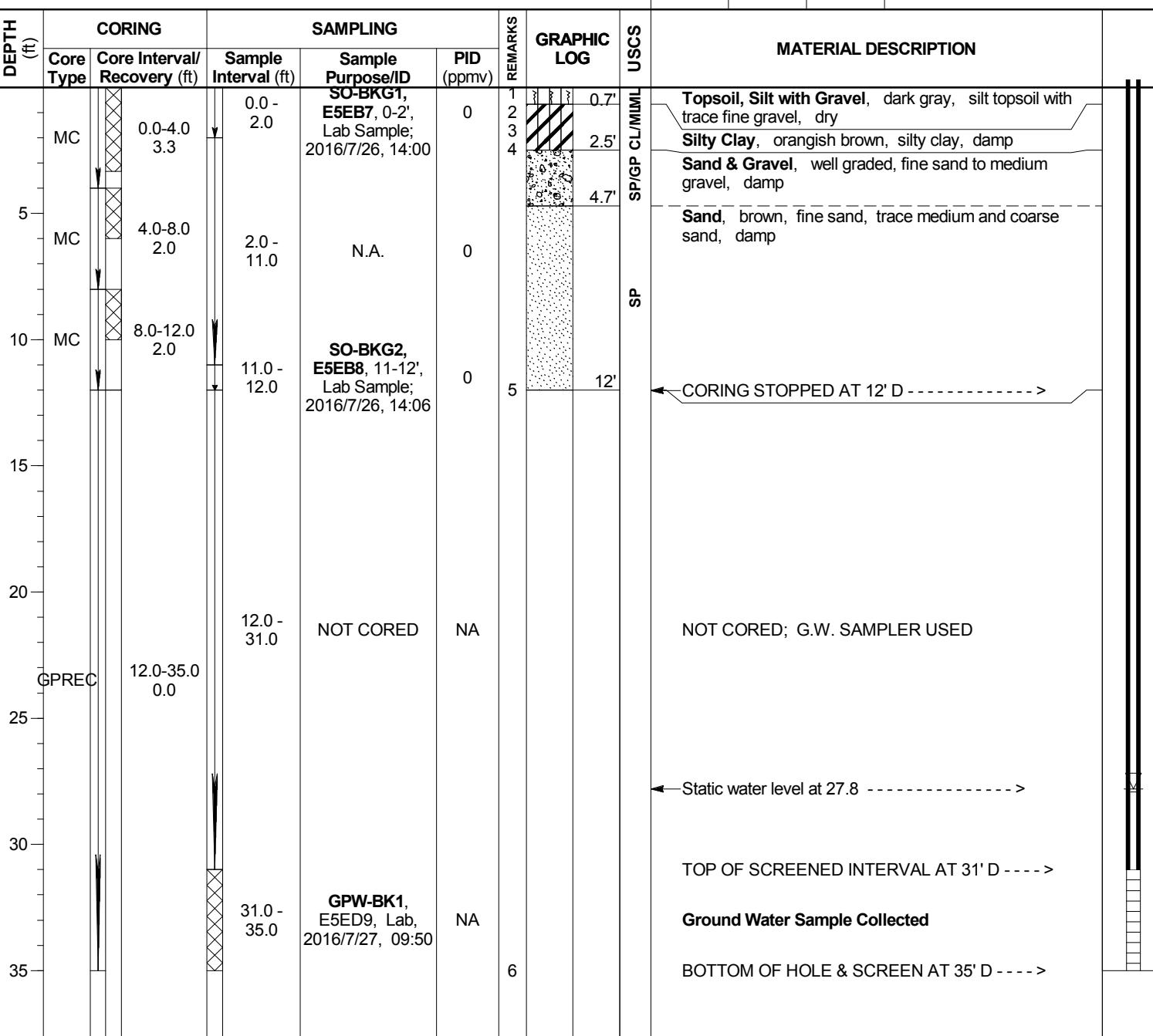
Notes

NOTES: Check-valve method used to extract water. No MW was installed.

Backfilled with granular bentonite.

07/27/16 09:50 27.80 ▽

static level



REMARKS:

- GENERAL NOTE: For this sampling location, the gINT boring logs are a compilation of info from field log sheets, and Geoprobe® operator's log book.
- GENERAL NOTE: Borings completed & sampled using a Geoprobe® Direct-Push Model 5410 mounted on Ford F-450 flatbed.
- GENERAL NOTE: Collected GW Sample using a check-valve, FSOP 2.2.5 Ground Water Sampling, using an Inertial Lift (check-valve) Pump.
- ABBREVIATIONS USED: BKG = Background sample; b.g.s. = below ground surface; DUP = Duplicate sample; GW = Ground Water; MC = Geoprobe Macro-Core®; N.A. = Not Applicable
- Per Geoprobe® log book, "BKG-SO: MC's to 12' bgs for soils, background. BKG-GW: pushed to 35' bgs for GW (31-35' screen). Water ~27.8' bgs."
- Per Field Boring Log Sheet, "12 ft soils / 36' GW. 32--36' Groundwater sample BKG-GW." [Editors Note: The total depth in the Geoprobe log book was referenced as 35', which was used instead of 36' in the Field Boring Log Sheet.]

APPENDIX C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: August 19, 2016

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
Email Address: wendy.vorwerk@epa.oh.gov

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Puritan Laundry (OH)

Case No: 46350 MA No: --- SDG No: E5EA8

Number and Type of Samples: 11 soils /5 waters (VOA)

Sample Numbers: E5EA8, E5EA9, E5EB0 - E5EB5, E5EB7 - E5EB9, E5EC1 - E5EC5

Laboratory: CHM Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EA8

Laboratory: CHM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eleven (11) soil samples labeled E5EA8, E5EA9, E5EB0-E5EB5, and E5EB7-E5EB9, and five (5) preserved water samples labeled E5EC1-E5EC5, were shipped to Chemtech located in Mountainside, NJ. The samples were collected between July 25 and 27, 2016 and received between July 27 and 29, 2016 intact and properly cooled.

All soil samples were analyzed for volatiles and all water samples were analyzed for trace volatiles according to CLP SOW SOM02.3 [Sept 2015] and reviewed according to the August 2014 NFG for SOM02.2 (EPA-540-R-014-002) and the Summary of Changes: SOM02.2 to SOM02.3.

Samples E5EA8 and E5EC1 were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

No samples were identified as field or trip blanks. E5EB9 appears to be a field duplicate of E5EB2 and E5EC5 appears to be a field duplicate of E5EC4 based on sample collection dates and times.

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EA8

Laboratory: CHM

1. PRESERVATION AND HOLDING TIMES

No problems were found.

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK and GAS CHROMATOGRAPH/ELECTRON CAPTURE DETECTOR INSTRUMENT PERFORMANCE CHECK

No problems were found.

3. INITIAL CALIBRATION

No problems were found.

4. CONTINUING CALIBRATION

No problems were found.

5. BLANKS

The following low/medium volatile samples have analyte results reported less than CRQLs. The associated method blank results are less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs. Sample results for E5EB1 are not reflected in the EXES Sample Summary.

E5EA9, E5EB0, E5EB1, E5EB1RE, E5EB2, E5EB3, E5EB4, E5EB5, E5EB7, E5EB8,
E5EB9, VHBLK01 (soil)
Methylene chloride

6. DEUTERATED MONITORING COMPOUNDS / SURROGATES

The following low/medium volatile samples have DMC/surrogate recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Compounds were not detected. Nondetects are qualified as estimated UJ.

E5EB2, E5EB9
Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene,
1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The following low/medium volatile samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J+. Nondetects are not qualified. Result for E5EB1 are not reflected in the EXES Sample Summary.

Case No: 46350

SDG No: E5EA8

Site Name: Puritan Laundry (OH)

Laboratory: CHM

E5EB1

Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane,
Bromodichloromethane, 4-Methyl-2-pentanone, 2-Hexanone,
1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

E5EB1RE

Benzene

E5EB2, E5EB9

1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Samples E5EA8 (soil) and E5EC1 (water) were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses. No problems were found.

8. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not applicable to volatile analyses.

9. GEL PERMEATION CHROMATOGRAPHY PERFORMANCE CHECK

Not applicable to volatile analyses.

10. LABORATORY CONTROL SAMPLE

Not applicable to volatile analyses.

11. INTERNAL STANDARD

The following low/medium volatile samples have internal standard area response less than expanded minimum criteria (<20%). Compounds were not detected. Nondetects are qualified as unusable R.

E5EB1RE

Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene,
1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The following low/medium volatile samples have internal standard area response greater than or equal to expanded minimum criteria ($\geq 20\%$) and less than primary minimum criteria (50%). Detects are qualified as estimated J+. Nondetects are qualified as estimated UJ. Sample results for E5EB1 are not reflected in the EXES Sample Summary.

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EA8

Laboratory: CHM

E5EB1

Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E5EB1RE

1,1,1-Trichloroethane, Cyclohexane, Carbon tetrachloride, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane

12. TARGET ANALYTE IDENTIFICATION

No problems were found.

13. REPORTED CONTRACT QUANTITATION LIMIT

The following trace volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified J.

E5EC3

cis-1,2-Dichloroethene

E5EC4, E5EC5

cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Trichloroethene

The following low/medium volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified J. Sample results for E5EB1 are not reflected in the EXES Sample Summary.

E5EB1

Acetone

E5EB2

Carbon disulfide

E5EB5

Tetrachloroethene

E5EB9

Ethylbenzene

VBLK86, VBLK87

Methylene chloride

Case No: 46350

SDG No: E5EA8

Site Name: Puritan Laundry (OH)

Laboratory: CHM

14. TENTATIVELY IDENTIFIED COMPOUNDS

All TICs are identified in the separate NFG document: Data Validation Report Tentatively Identified Compounds. The manually reviewed report is titled '46350.E5EA8.TIC.rtf'.

15. SYSTEM PERFORMANCE

No problems were found.

16. FIELD QC SAMPLES

No samples were identified as field or trip blanks. E5EB9 appears to be a field duplicate of E5EB2 and E5EC5 appears to be a field duplicate of E5EC4 based on sample collection dates and times.

The calculated RPDs for the field duplicates are presented in the following table:

CLP Sample No.:	E5EB2	E5EB9	
Sample Identifier:	GP8-S2	SO-DUP1	
Location:	GP	GP	
Collection Date/Time:	7-26-2016/14:55	7-26-2016/14:55	
Dilution factor:	1	1	RPDs
Acetone	12	12	0
Carbon disulfide	2.5	ND	200
Tetrachloroethene	47	37	24
Ethylbenzene	ND	1.7	200
o-Xylene	ND	27	200
m,p-Xylene	ND	23	200
No. of TICs	23	17	

CLP Sample No.:	E5EC4	E5EC5	
Sample Identifier:	NP-PW4	PW-DUP	
Location:	PW	PW	
Collection Date/Time:	7-27-2016/14:20	7-27-2016/14:20	
Dilution factor:	1	1	RPDs
Acetone	5.2	ND	200
cis-1,2-Dichloroethene	0.17	0.14	19
1,1,1-Trichloroethane	0.19	0.19	0
Trichloroethene	0.31	0.30	3.3
Tetrachloroethene	4.3	4.6	6.7
No. of TICs	0	0	

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EA8

Laboratory: CHM

17. OVERALL ASSESSMENT

This version of EXES reports only one Sample Summary per Sample. The re-analyzed samples reflected the same QC problems as the original. The results from the original analyses are not reflected in the Summary Reports. The laboratory Form Is for these samples are included with the hardcopy data package.

E5EB1

Manual integrations were reviewed and found to be acceptable. Both before and after snapshots of the chromatograms were provided.

The laboratory improperly labeled the storage blank for each matrix with the same sample number, VHBLK01.

Validation Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Edit History Report

Case No: 46350

Contract: EPW14030

SDG No: E5EA8

Lab Code: CHM

Method: Volatile Organics

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5EA8MS	Soil	Total Alkanes	Validation Flag	*		Stephen Connet	9/21/16 4:01 PM	
E5EA8MSD	Soil	Total Alkanes	Validation Flag	*		Stephen Connet	9/21/16 4:02 PM	
VHBLK01	Soil	Methylene chloride	Validated Result	2.5	5.0	Stephen Connet	9/21/16 4:06 PM	
VHBLK01	Soil	Methylene chloride	Validation Flag	J	U	Stephen Connet	9/21/16 4:06 PM	

Method: Trace Volatiles

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5EC1MS	Water	Total Alkanes	Validation Flag	*		Stephen Connet	9/21/16 4:05 PM	
E5EC1MSD	Water	Total Alkanes	Validation Flag	*		Stephen Connet	9/21/16 4:06 PM	

Sample Summary Report

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EA8	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 12:12:00
% Moisture :		% Solids : 94	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Chloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Bromomethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Chloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Acetone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Methylene chloride	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
2-Butanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Chloroform	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Cyclohexane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Benzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Trichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3-Dichloropropene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Toluene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
trans-1,3-Dichloropropene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
2-Hexanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
o-xylene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Styrene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Bromoform	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EA8MS	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date: 07/26/2016	Sample Time: 12:12:00
% Moisture :		% Solids : 94	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Chloromethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Vinyl chloride	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Bromomethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Chloroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Trichlorofluoromethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,1-Dichloroethene	Spike	64		ug/kg	64		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Acetone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Carbon disulfide	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Methyl Acetate	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Methylene chloride	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,1-Dichloroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
2-Butanone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Bromochloromethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Chloroform	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Cyclohexane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Carbon tetrachloride	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Benzene	Spike	70		ug/kg	70		1.0	Yes	S3VE
1,2-Dichloroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Trichloroethene	Spike	69		ug/kg	69		1.0	Yes	S3VE
Methylcyclohexane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,2-Dichloropropane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Bromodichloromethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Toluene	Spike	69		ug/kg	69		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Tetrachloroethene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
2-Hexanone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Dibromochloromethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,2-Dibromoethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Chlorobenzene	Spike	67		ug/kg	67		1.0	Yes	S3VE
Ethylbenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
o-xylene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
m,p-Xylene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Styrene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Bromoform	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Isopropylbenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	6.3	U	ug/kg	6.3	U*	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg		*	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EA8MSD	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date: 07/26/2016	Sample Time: 12:12:00
% Moisture :		% Solids : 94	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Chloromethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Vinyl chloride	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Bromomethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Chloroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Trichlorofluoromethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,1-Dichloroethene	Spike	65		ug/kg	65		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Acetone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Carbon disulfide	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Methyl Acetate	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Methylene chloride	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,1-Dichloroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
2-Butanone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Bromochloromethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Chloroform	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Cyclohexane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Carbon tetrachloride	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Benzene	Spike	69		ug/kg	69		1.0	Yes	S3VE
1,2-Dichloroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Trichloroethene	Spike	69		ug/kg	69		1.0	Yes	S3VE
Methylcyclohexane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,2-Dichloropropane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Bromodichloromethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Toluene	Spike	68		ug/kg	68		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Tetrachloroethene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
2-Hexanone	Target	13	U	ug/kg	13	U*	1.0	Yes	S3VE
Dibromochloromethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,2-Dibromoethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Chlorobenzene	Spike	67		ug/kg	67		1.0	Yes	S3VE
Ethylbenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
o-xylene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
m,p-Xylene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Styrene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Bromoform	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Isopropylbenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	6.6	U	ug/kg	6.6	U*	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg		*	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EA9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 14:15:00
% Moisture :		% Solids : 96.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Chloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Bromomethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Chloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Acetone	Target	13	U	ug/kg	13	U	1.0	Yes	S3VE
Carbon disulfide	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Methylene chloride	Target	6.5	U	ug/kg	2.2	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
2-Butanone	Target	13	U	ug/kg	13	U	1.0	Yes	S3VE
Bromochloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Chloroform	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Cyclohexane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Benzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Trichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	13	U	ug/kg	13	U	1.0	Yes	S3VE
Toluene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
2-Hexanone	Target	13	U	ug/kg	13	U	1.0	Yes	S3VE
Dibromochloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
o-xylene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Styrene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Bromoform	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB0	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 15:30:00
% Moisture :		% Solids : 84.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Acetone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/kg	1.5	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB1	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 14:45:00
% Moisture :		% Solids : 95.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Chloromethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Bromomethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Chloroethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Acetone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Methylene chloride	Target	5.9	U	ug/kg	3.6	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
2-Butanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Chloroform	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Cyclohexane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Benzene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.9	U	ug/kg	5.9	U	1.0	Yes	S3VE
Trichloroethene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	12	UJ	ug/kg	12	U	1.0	Yes	S3VE
Toluene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Tetrachloroethene	Target	77	J+	ug/kg	77		1.0	Yes	S3VE
2-Hexanone	Target	12	UJ	ug/kg	12	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
o-xylene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Styrene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
Bromoform	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.9	UJ	ug/kg	5.9	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.9	R	ug/kg	5.9	U	1.0	Yes	S3VE
Oxalic acid, cyclobutyl tridecyl e	TIC	9.1	J	ug/kg	9.1	J	1.0	Yes	NV
Total Alkanes	TIC	23	B	ug/kg	23	B	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB2	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 14:55:00
% Moisture :		% Solids : 87.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Bromomethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Acetone	Target	12		ug/kg	12		1.0	Yes	S3VE
Carbon disulfide	Target	2.5	J	ug/kg	2.5	J	1.0	Yes	S3VE
Methyl Acetate	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methylene chloride	Target	4.2	U	ug/kg	2.2	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
2-Butanone	Target	8.4	U	ug/kg	8.4	U	1.0	Yes	S3VE
Bromochloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chloroform	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Cyclohexane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Benzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Trichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	8.4	U	ug/kg	8.4	U	1.0	Yes	S3VE
Toluene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Tetrachloroethene	Target	47		ug/kg	47		1.0	Yes	S3VE
2-Hexanone	Target	8.4	U	ug/kg	8.4	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chlorobenzene	Target	4.2	UJ	ug/kg	4.2	U	1.0	Yes	S3VE
Ethylbenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
o-xylene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
m,p-Xylene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Styrene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Bromoform	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4.2	UJ	ug/kg	4.2	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.2	UJ	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4.2	UJ	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4.2	UJ	ug/kg	4.2	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	4.2	UJ	ug/kg	4.2	U	1.0	Yes	S3VE
unknown-07	TIC	160	J	ug/kg	160	J	1.0	Yes	NV
Ketone, 2,2-dimethylcyclohexyl met	TIC	9.2	J	ug/kg	9.2	J	1.0	Yes	NV
unknown-09	TIC	220	J	ug/kg	220	J	1.0	Yes	NV
unknown-11	TIC	170	J	ug/kg	170	J	1.0	Yes	NV
unknown-02	TIC	620	J	ug/kg	620	J	1.0	Yes	NV
1-Methyldecahydronaphthalene	TIC	4.4	J	ug/kg	4.4	J	1.0	Yes	NV
Benzene, 1,2,4,5-tetramethyl-	TIC	3.5	J	ug/kg	3.5	J	1.0	Yes	NV
unknown-05	TIC	310	J	ug/kg	310	J	1.0	Yes	NV
Benzene, 1-ethyl-2,4-dimethyl-	TIC	2.1	J	ug/kg	2.1	J	1.0	Yes	NV
unknown-13	TIC	6.3	J	ug/kg	6.3	J	1.0	Yes	NV
Total Alkanes	TIC	11000	B	ug/kg	11000	B	1.0	Yes	NV
unknown-01	TIC	1500	J	ug/kg	1500	J	1.0	Yes	NV
Adamantane	TIC	5.9	J	ug/kg	5.9	J	1.0	Yes	NV
unknown-08	TIC	310	J	ug/kg	310	J	1.0	Yes	NV
1,3-Cyclopentadiene, 1,2,3,4-tetra-	TIC	2.3	J	ug/kg	2.3	J	1.0	Yes	NV

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
unknown-03	TIC	2000	J	ug/kg	2000	J	1.0	Yes	NV
unknown-12	TIC	22	J	ug/kg	22	J	1.0	Yes	NV
unknown-10	TIC	62	J	ug/kg	62	J	1.0	Yes	NV
Sulfurous acid, cyclohexylmethyln	TIC	5.8	J	ug/kg	5.8	J	1.0	Yes	NV
Benzene, 2-ethyl-1,3-dimethyl-	TIC	5.2	J	ug/kg	5.2	J	1.0	Yes	NV
unknown-14	TIC	2.9	J	ug/kg	2.9	J	1.0	Yes	NV
unknown-04	TIC	480	J	ug/kg	480	J	1.0	Yes	NV
trans-Decalin, 2-methyl-	TIC	13	J	ug/kg	13	J	1.0	Yes	NV
unknown-06	TIC	610	J	ug/kg	610	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB3	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 10:20:00
% Moisture :		% Solids : 92	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Chloromethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Bromomethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Chloroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Acetone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Methylene chloride	Target	5.6	U	ug/kg	2.0	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
2-Butanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Chloroform	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Cyclohexane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Benzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Trichloroethene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Toluene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
2-Hexanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
o-xylene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Styrene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Bromoform	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.6	U	ug/kg	5.6	U	1.0	Yes	S3VE
Total Alkanes	TIC	5.0	B	ug/kg	5.0	B	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB4	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 12:25:00
% Moisture :		% Solids : 96.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Chloromethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Vinyl chloride	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Bromomethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Chloroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Acetone	Target	14	U	ug/kg	14	U	1.0	Yes	S3VE
Carbon disulfide	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Methyl Acetate	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Methylene chloride	Target	7.1	U	ug/kg	2.2	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
2-Butanone	Target	14	U	ug/kg	14	U	1.0	Yes	S3VE
Bromochloromethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Chloroform	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Cyclohexane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Benzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Trichloroethene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Methylcyclohexane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Bromodichloromethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	14	U	ug/kg	14	U	1.0	Yes	S3VE
Toluene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Tetrachloroethene	Target	23		ug/kg	23		1.0	Yes	S3VE
2-Hexanone	Target	14	U	ug/kg	14	U	1.0	Yes	S3VE
Dibromochloromethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Chlorobenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Ethylbenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
o-xylene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
m,p-Xylene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Styrene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Bromoform	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Isopropylbenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	7.1	U	ug/kg	7.1	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB5	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 10:51:00
% Moisture :		% Solids : 91.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Chloromethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Bromomethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Chloroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Acetone	Target	9.0	U	ug/kg	9.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Methylene chloride	Target	4.5	U	ug/kg	1.4	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
2-Butanone	Target	9.0	U	ug/kg	9.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Chloroform	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Cyclohexane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Benzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Trichloroethene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	9.0	U	ug/kg	9.0	U	1.0	Yes	S3VE
Toluene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	2.8	J	ug/kg	2.8	J	1.0	Yes	S3VE
2-Hexanone	Target	9.0	U	ug/kg	9.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
o-xylene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Styrene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Bromoform	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	4.5	U	ug/kg	4.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB7	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 14:00:00
% Moisture :		% Solids : 83.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Chloromethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Bromomethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Chloroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Acetone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Carbon disulfide	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Methyl Acetate	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Methylene chloride	Target	4.9	U	ug/kg	1.6	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
2-Butanone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Bromochloromethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Chloroform	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Cyclohexane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Benzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Trichloroethene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Toluene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4.9		ug/kg	4.9		1.0	Yes	S3VE
2-Hexanone	Target	9.9	U	ug/kg	9.9	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Chlorobenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Ethylbenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
o-xylene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
m,p-Xylene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Styrene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Bromoform	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	4.9	U	ug/kg	4.9	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB8	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 14:06:00
% Moisture :		% Solids : 94	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Chloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Vinyl chloride	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Bromomethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Chloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Acetone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Carbon disulfide	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Methyl Acetate	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Methylene chloride	Target	6.2	U	ug/kg	2.2	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
2-Butanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Bromochloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Chloroform	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Cyclohexane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Benzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Trichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Methylcyclohexane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Bromodichloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Toluene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Tetrachloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
2-Hexanone	Target	12	U	ug/kg	12	U	1.0	Yes	S3VE
Dibromochloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Chlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Ethylbenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
o-xylene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
m,p-Xylene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Styrene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Bromoform	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Isopropylbenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EB9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: GP	pH:	Sample Date: 07/26/2016	Sample Time: 14:55:00
% Moisture :		% Solids : 86.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Chloromethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Bromomethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Chloroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Acetone	Target	12		ug/kg	12		1.0	Yes	S3VE
Carbon disulfide	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Methyl Acetate	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Methylene chloride	Target	4.6	U	ug/kg	1.5	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
2-Butanone	Target	9.2	U	ug/kg	9.2	U	1.0	Yes	S3VE
Bromochloromethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Chloroform	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Cyclohexane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Benzene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Trichloroethene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	9.2	U	ug/kg	9.2	U	1.0	Yes	S3VE
Toluene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Tetrachloroethene	Target	37		ug/kg	37		1.0	Yes	S3VE
2-Hexanone	Target	9.2	U	ug/kg	9.2	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Chlorobenzene	Target	4.6	UJ	ug/kg	4.6	U	1.0	Yes	S3VE
Ethylbenzene	Target	1.7	J	ug/kg	1.7	J	1.0	Yes	S3VE
o-xylene	Target	27		ug/kg	27		1.0	Yes	S3VE
m,p-Xylene	Target	23		ug/kg	23		1.0	Yes	S3VE
Styrene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Bromoform	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4.6	UJ	ug/kg	4.6	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.6	UJ	ug/kg	4.6	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4.6	UJ	ug/kg	4.6	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4.6	U	ug/kg	4.6	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4.6	UJ	ug/kg	4.6	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	4.6	UJ	ug/kg	4.6	U	1.0	Yes	S3VE
Benzene, 2-butenyl-	TIC	4.9	J	ug/kg	4.9	J	1.0	Yes	NV
unknown-02	TIC	3.8	J	ug/kg	3.8	J	1.0	Yes	NV
Benzene, 1-ethyl-4-methyl-	TIC	110	J	ug/kg	110	J	1.0	Yes	NV
Benzene, 1-methyl-4-propyl-	TIC	9.9	J	ug/kg	9.9	J	1.0	Yes	NV
Benzene, 4-ethyl-1,2-dimethyl-	TIC	8.4	J	ug/kg	8.4	J	1.0	Yes	NV
p-Cymene	TIC	8.4	J	ug/kg	8.4	J	1.0	Yes	NV
Benzene, 1-ethyl-2,3-dimethyl-	TIC	3.1	J	ug/kg	3.1	J	1.0	Yes	NV
unknown-01	TIC	300	J	ug/kg	300	J	1.0	Yes	NV
1H-Indene, 2,3-dihydro-2-methyl-	TIC	3.2	J	ug/kg	3.2	J	1.0	Yes	NV
Cyclohexene, 1-ethyl-	TIC	28	J	ug/kg	28	J	1.0	Yes	NV
Naphthalene, decahydro-2-methyl-	TIC	3.4	J	ug/kg	3.4	J	1.0	Yes	NV
Heptanoic acid, 2-methyl-2-butyl e	TIC	87	J	ug/kg	87	J	1.0	Yes	NV
o-Cymene	TIC	58	J	ug/kg	58	J	1.0	Yes	NV
Benzene, 1-ethyl-2-methyl-	TIC	85	J	ug/kg	85	J	1.0	Yes	NV
Benzene, 1-methyl-3-propyl-	TIC	13	J	ug/kg	13	J	1.0	Yes	NV

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC	11000	B	ug/kg	11000	B	1.0	Yes	NV
7-Octenal, 3,7-dimethyl-	TIC	9.6	J	ug/kg	9.6	J	1.0	Yes	NV
Furfuryl glycidyl ether	TIC	100	J	ug/kg	100	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: PW	pH: 1.0	Sample Date: 07/27/2016	Sample Time: 14:00:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	1.8		ug/L	1.8		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC1MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 07/27/2016	Sample Time: 14:00:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1-Dichloroethene	Spike	4.9		ug/L	4.9		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Benzene	Spike	5.5		ug/L	5.5		1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Trichloroethene	Spike	7.5		ug/L	7.5		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Toluene	Spike	5.3		ug/L	5.3		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Chlorobenzene	Spike	4.9		ug/L	4.9		1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L		*	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC1MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 07/27/2016	Sample Time: 14:00:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1-Dichloroethene	Spike	5.1		ug/L	5.1		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Benzene	Spike	5.5		ug/L	5.5		1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Trichloroethene	Spike	7.4		ug/L	7.4		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Toluene	Spike	5.3		ug/L	5.3		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U*	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Chlorobenzene	Spike	5.0		ug/L	5.0		1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U*	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L		*	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: PW	pH: 1.3	Sample Date: 07/27/2016	Sample Time: 14:10:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1.2		ug/L	1.2		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	7.3		ug/L	7.3		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	1.5		ug/L	1.5		1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: PW	pH: 1.3	Sample Date: 07/27/2016	Sample Time: 14:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.20	J	ug/L	0.20	J	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.98		ug/L	0.98		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: PW	pH: 1.3	Sample Date: 07/27/2016	Sample Time: 14:20:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.2		ug/L	5.2		1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.19	J	ug/L	0.19	J	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4.3		ug/L	4.3		1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: E5EC5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: PW	pH: 1.3	Sample Date: 07/27/2016	Sample Time: 14:20:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.14	J	ug/L	0.14	J	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.19	J	ug/L	0.19	J	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4.6		ug/L	4.6		1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: VBLK34	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: VBLK35	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: VBLK86	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	2.0	J	ug/kg	2.0	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: VBLK87	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	2.6	J	ug/kg	2.6	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EA8	Lab Code: CHM
Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/kg	2.5	JB	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: August 19, 2016

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
Email Address: wendy.vorwerk@epa.oh.gov

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Puritan Laundry (OH)

Case No: 46350 MA No: --- SDG No: E5EC6

Number and Type of Samples: 16 water (VOA)

Sample Numbers: E5EC6-C9, D0-D9, E0, E1

Laboratory: CHM Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EC6

Laboratory: CHM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Sixteen (16) preserved water samples labeled E5EC6-E5EC9, E5ED0-E5ED9, E5EE0, and E5EE1, were shipped to Chemtech located in Mountainside, NJ. Samples were collected on the following dates:

Sample ID	Date Collected	pH on Receipt
E5EC6	7/25/2016	7
E5EC7	7/25/2016	7
E5EC8	7/26/2016	7
E5EC9	7/26/2016	7
E5ED0	7/26/2016	7
E5ED1	7/27/2016	7
E5ED2	7/28/2016	7
E5ED3	7/26/2016	7
E5ED4	7/28/2016	7
E5ED5	7/27/2016	7
E5ED6	7/27/2016	7
E5ED7	7/26/2016	7
E5ED8	7/27/2016	7
E5ED9	7/27/2016	3
E5EE0	7/27/2016	7
E5EE1	7/22/2016	5

All samples were received on July 29, 2016 intact and properly cooled.

All samples were analyzed according to CLP SOW SOM02.3, [Sept 2015] and reviewed according to the August 2014 NFG for SOM02.2 (EPA-540-R-014-002) and the Summary of Changes: SOM02.2 to SOM02.3.

Sample E5EC6 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

Sample E5EE1 was identified as a trip blank. No samples are identified as field blanks. Samples E5ED7 and E5ED8 were identified as field duplicates; however, it is unclear what samples they are duplicates of.

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EC6

Laboratory: CHM

1. PRESERVATION AND HOLDING TIMES

The following low/medium volatile aqueous samples are not properly preserved and analyzed outside the technical holding time of 7 days. Detects are qualified as estimated low (J-). Nondetects are qualified as unusable R.

E5EC6, E5EC6MS, E5EC6MSD, E5EC7, E5ED3, E5ED5, E5ED6, E5ED7, E5ED8, E5ED9, E5EE0, E5EE1

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK and GAS CHROMATOGRAPH/ELECTRON CAPTURE DETECTOR INSTRUMENT PERFORMANCE CHECK

No problems were found.

3. INITIAL CALIBRATION

No problems were found.

4. CONTINUING CALIBRATION

No problems were found.

5. BLANKS

No problems were found.

6. DEUTERATED MONITORING COMPOUNDS / SURROGATES

No problems were found.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No problems were found.

8. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not applicable to volatile analyses.

9. GEL PERMEATION CHROMATOGRAPHY PERFORMANCE CHECK

Not applicable to volatile analyses.

10. LABORATORY CONTROL SAMPLE

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EC6

Laboratory: CHM

Not applicable to volatile analyses.

11. INTERNAL STANDARD

No problems were found.

12. TARGET ANALYTE IDENTIFICATION

No problems were found.

13. REPORTED CONTRACT QUANTITATION LIMIT

The following low/medium volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified J.

E5EC6, E5ED7, E5EE0

cis-1,2-Dichloroethene, Trichloroethene

E5EC6MS, E5EC6MSD, E5EC8

cis-1,2-Dichloroethene

E5EC9

Vinyl chloride, Acetone

E5ED0

Acetone, cis-1,2-Dichloroethene

E5ED2

Acetone, Tetrachloroethene, Ethylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene

E5ED3

Acetone, Cyclohexane, Trichloroethene, Methylcyclohexane, Toluene, o-Xylene, m,p-Xylene, Isopropylbenzene, 1,4-Dichlorobenzene

E5ED4

Methylcyclohexane, Toluene

E5ED5, E5ED8

Acetone

E5ED6

Acetone, Methylcyclohexane, Toluene

E5ED9

Acetone, Methylcyclohexane

Case No: 46350

Site Name: Puritan Laundry (OH)

SDG No: E5EC6

Laboratory: CHM

E5EE1
Methylene chloride

14. TENTATIVELY IDENTIFIED COMPOUNDS

All TICs are identified in the separate NFG document: Data Validation Report Tentatively Identified Compounds. The manually reviewed report is titled ‘46350.E5EC6.TIC.rtf’.

15. SYSTEM PERFORMANCE

No problems were found.

16. FIELD QC SAMPLES

The low/medium volatile sample E5EE1 is identified as a trip blank and has analyte results reported less than CRQLs. No other sample results are affected.

E5EE1
Methylene chloride

Samples E5ED7 and E5ED8 were identified as field duplicates; however, it is unclear what samples they are duplicates of. No comparison of field duplicates was performed by ESAT.

17. OVERALL ASSESSMENT

The pH of some of the “preserved” water samples were greater than 7.0; therefore, the samples were evaluated as “unpreserved” water samples.

Validation Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Edit History Report

Case No: 46350

Contract: EPW14030

SDG No: E5EC6

Lab Code: CHM

Method: Volatile Organics

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5EC6MS	Water	1,1-Dichloroethene	Validation Flag		J-	Stephen Connet	8/30/16 10:49 AM	
E5EC6MS	Water	Benzene	Validation Flag		J-	Stephen Connet	8/30/16 10:49 AM	
E5EC6MS	Water	Chlorobenzene	Validation Flag		J-	Stephen Connet	8/30/16 10:49 AM	
E5EC6MS	Water	Toluene	Validation Flag		J-	Stephen Connet	8/30/16 10:49 AM	
E5EC6MS	Water	Trichloroethene	Validation Flag		J-	Stephen Connet	8/30/16 10:49 AM	
E5EC6MSD	Water	1,1-Dichloroethene	Validation Flag		J-	Stephen Connet	8/30/16 10:50 AM	
E5EC6MSD	Water	Benzene	Validation Flag		J-	Stephen Connet	8/30/16 10:50 AM	
E5EC6MSD	Water	Chlorobenzene	Validation Flag		J-	Stephen Connet	8/30/16 10:50 AM	
E5EC6MSD	Water	Toluene	Validation Flag		J-	Stephen Connet	8/30/16 10:50 AM	
E5EC6MSD	Water	Trichloroethene	Validation Flag		J-	Stephen Connet	8/30/16 10:50 AM	
E5EC8	Water	1,1,1-Trichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,1,2,2-Tetrachloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,1,2-Trichloro-1,2,2-trifluoroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,1,2-Trichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,1-Dichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,1-Dichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2,3-Trichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2,4-trichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2-Dibromo-3-chloropropane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2-Dibromoethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2-Dichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,2-Dichloropropane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,3-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	1,4-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	2-Butanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	2-Hexanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	4-Methyl-2-pentanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Acetone	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Benzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Bromochloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Bromodichloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Bromoform	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Bromomethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Carbon disulfide	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Carbon tetrachloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5EC8	Water	Chlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Chloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Chloroform	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Chloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Cyclohexane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Dibromochloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Dichlorodifluoromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Ethylbenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Isopropylbenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Methyl Acetate	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Methyl tert-butyl Ether	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Methylcyclohexane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Methylene chloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Styrene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Tetrachloroethene	Validation Flag	J-	J	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Toluene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Trichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Trichlorofluoromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	Vinyl chloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	cis-1,2-Dichloroethene	Validation Flag	J-	J	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	cis-1,3-Dichloropropene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	m,p-Xylene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	o-xylene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	trans-1,2-Dichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC8	Water	trans-1,3-Dichloropropene	Validation Flag	R	U	Stephen Connet	8/26/16 3:24 PM	
E5EC9	Water	1,1,1-Trichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,1,2,2-Tetrachloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,1,2-Trichloro-1,2,2-trifluoroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,1,2-Trichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,1-Dichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,1-Dichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2,3-Trichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2,4-trichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2-Dibromo-3-chloropropane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2-Dibromoethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2-Dichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,2-Dichloropropane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,3-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	1,4-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	2-Butanone	Validation	R	U	Stephen	8/26/16 3:25 PM	

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5EC9	Water	2-Butanone	Flag	R	U	Connet	8/26/16 3:25 PM	
E5EC9	Water	2-Hexanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	4-Methyl-2-pentanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Acetone	Validation Flag	J-	J	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Benzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Benzene, 1,2,3-trimethyl-	Validation Flag	J	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Benzene, 1,3-diethyl-	Validation Flag	J	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Benzene, 1-ethyl-2,3-dimethyl-	Validation Flag	J	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Benzene, 1-methyl-4-propyl-	Validation Flag	J	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Bromochloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Bromodichloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Bromoform	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Bromomethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Carbon disulfide	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Carbon tetrachloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Chlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Chloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Chloroform	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Chloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Cyclohexane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Dibromochloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Dichlorodifluoromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Ethylbenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Isopropylbenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Methyl Acetate	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Methyl tert-butyl Ether	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Methylcyclohexane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Methylene chloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Styrene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Tetrachloroethene	Validation Flag	J-	J	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Toluene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Trichloroethene	Validation Flag	J-	J	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Trichlorofluoromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	Vinyl chloride	Validation Flag	J-	J	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	cis-1,2-Dichloroethene	Validation Flag	J-	J	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	cis-1,3-Dichloropropene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	m,p-Xylene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	o-xylene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	trans-1,2-Dichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5EC9	Water	trans-1,3-Dichloropropene	Validation Flag	R	U	Stephen Connet	8/26/16 3:25 PM	
E5ED0	Water	1,1,1-Trichloroethane	Validation	R	U	Stephen	8/26/16 3:27 PM	

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5ED0	Water	1,1,1-Trichloroethane	Flag	R	U	Connet	8/26/16 3:27 PM	
E5ED0	Water	1,1,2,2-Tetrachloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,1,2-Trichloro-1,2,2-trifluoroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,1,2-Trichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,1-Dichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,1-Dichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2,3-Trichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2,4-trichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2-Dibromo-3-chloropropane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2-Dibromoethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2-Dichloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,2-Dichloropropane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,3-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	1,4-Dichlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	2-Butanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	2-Hexanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	4-Methyl-2-pentanone	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Acetone	Validation Flag	J-	J	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Benzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Bromochloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Bromodichloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Bromoform	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Bromomethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Carbon disulfide	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Carbon tetrachloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Chlorobenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Chloroethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Chloroform	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Chloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Cyclohexane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Dibromochloromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Dichlorodifluoromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Ethylbenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Isopropylbenzene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Methyl Acetate	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Methyl tert-butyl Ether	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Methylcyclohexane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Methylene chloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Styrene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Tetrachloroethene	Validation	J-	J	Stephen	8/26/16 3:27 PM	

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E5ED0	Water	Tetrachloroethene	Flag	J-	J	Connet	8/26/16 3:27 PM	
E5ED0	Water	Toluene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Trichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Trichlorofluoromethane	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	Vinyl chloride	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	cis-1,2-Dichloroethene	Validation Flag	J-	J	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	cis-1,3-Dichloropropene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	m,p-Xylene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	o-xylene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	trans-1,2-Dichloroethene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	
E5ED0	Water	trans-1,3-Dichloropropene	Validation Flag	R	U	Stephen Connet	8/26/16 3:27 PM	

Sample Summary Report

Case No:	46350	Contract:	EPW14030	SDG No:	E5EC6	Lab Code:	CHM
Sample Number:	E5EC6		Method:	Volatile Organics	Matrix:	Water	MA Number:
Sample Location:	GW		pH:	7.0	Sample Date:	07/25/2016	Sample Time: 15:30:00
% Moisture :					% Solids :	0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.1	J-	ug/L	2.1	J	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	2.4	J-	ug/L	2.4	J	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	110	J-	ug/L	110		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EC6MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 7.0	Sample Date: 07/25/2016	Sample Time: 15:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1-Dichloroethene	Spike	50	J-	ug/L	50		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.2	J-	ug/L	2.2	J*	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Benzene	Spike	51	J-	ug/L	51		1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Trichloroethene	Spike	52	J-	ug/L	52		1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Toluene	Spike	52	J-	ug/L	52		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Tetrachloroethene	Target	120	J-	ug/L	120	*	1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chlorobenzene	Spike	51	J-	ug/L	51		1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Total Alkanes	TIC		*	ug/L		*	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EC6MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 7.0	Sample Date: 07/25/2016	Sample Time: 15:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1-Dichloroethene	Spike	50	J-	ug/L	50		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.1	J-	ug/L	2.1	J*	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Benzene	Spike	51	J-	ug/L	51		1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Trichloroethene	Spike	51	J-	ug/L	51		1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Toluene	Spike	52	J-	ug/L	52		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Tetrachloroethene	Target	120	J-	ug/L	120	*	1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U*	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Chlorobenzene	Spike	50	J-	ug/L	50		1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U*	1.0	Yes	S3VE
Total Alkanes	TIC		*	ug/L		*	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EC7	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/25/2016	Sample Time: 16:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	47	J-	ug/L	47		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EC8	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/26/2016	Sample Time: 08:45:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1.2	J	ug/L	1.2	J	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	26	J	ug/L	26		1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EC9	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/26/2016	Sample Time: 09:50:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.4	J	ug/L	4.4	J	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	3.5	J	ug/L	3.5	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	130	J	ug/L	130		1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.9	J	ug/L	5.9		1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	43	J	ug/L	43		1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene, 1-methyl-3-propyl-	TIC	11	J	ug/L	11	J	1.0	Yes	NV
3-Phenylbut-1-ene	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV
o-Cymene	TIC	5.2	J	ug/L	5.2	J	1.0	Yes	NV
p-Cymene	TIC	20	J	ug/L	20	J	1.0	Yes	NV
Benzene, 1,2,4-trimethyl-	TIC	68	J	ug/L	68	J	1.0	Yes	NV
Pentalene, octahydro-2-methyl-	TIC	5.7	J	ug/L	5.7	J	1.0	Yes	NV
Benzene, 4-ethyl-1,2-dimethyl-	TIC	12	J	ug/L	12	J	1.0	Yes	NV
Benzene, 1-ethyl-2-methyl-	TIC	9.7	J	ug/L	9.7	J	1.0	Yes	NV
Benzene, 1-ethyl-2,3-dimethyl-	TIC	8.2	U	ug/L	8.2	J	1.0	Yes	NV
Benzene, 1-methyl-4-propyl-	TIC	16	U	ug/L	16	J	1.0	Yes	NV
Benzene, 1,3-diethyl-	TIC	14	U	ug/L	14	J	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	22	U	ug/L	22	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED0	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/26/2016	Sample Time: 11:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	4.8	J	ug/L	4.8	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1.3	J	ug/L	1.3	J	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	130	J	ug/L	130		1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-Cymene	TIC	5.6	J	ug/L	5.6	J	1.0	Yes	NV
Total Alkanes	TIC	41	B	ug/L	41	B	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	9.7	J	ug/L	9.7	J	1.0	Yes	NV
Bicyclo[4.1.0]heptane	TIC	9.6	J	ug/L	9.6	J	1.0	Yes	NV
Benzene, 1-ethyl-2-methyl-	TIC	9.6	J	ug/L	9.6	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED1	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/27/2016	Sample Time: 08:55:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	36		ug/L	36		1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED2	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/28/2016	Sample Time: 08:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	10		ug/L	10		1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	7.0	J	ug/L	7.0	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4.4	J	ug/L	4.4	J	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	1.7	J	ug/L	1.7	J	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.1		ug/L	5.1		1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	19		ug/L	19		1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	1.3	J	ug/L	1.3	J	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.2	J	ug/L	4.2	J	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	37		ug/L	37		1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC	33	B	ug/L	33	B	1.0	Yes	NV
Benzene, 1-ethyl-3-methyl-	TIC	12	J	ug/L	12	J	1.0	Yes	NV
Benzene, 1-ethyl-2-methyl-	TIC	11	J	ug/L	11	J	1.0	Yes	NV
Benzene, cyclopropyl-	TIC	21	J	ug/L	21	J	1.0	Yes	NV
1H-Indene, octahydro-, cis-	TIC	23	J	ug/L	23	J	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	21	J	ug/L	21	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED3	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/26/2016	Sample Time: 16:25:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	4.2	J-	ug/L	4.2	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	120	J-	ug/L	120		1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	1.5	J-	ug/L	1.5	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	1.3	J-	ug/L	1.3	J	1.0	Yes	S3VE
Methylcyclohexane	Target	2.1	J-	ug/L	2.1	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	1.7	J-	ug/L	1.7	J	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	120	J-	ug/L	120		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	2.6	J-	ug/L	2.6	J	1.0	Yes	S3VE
m,p-Xylene	Target	1.7	J-	ug/L	1.7	J	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.1	J-	ug/L	4.1	J	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	1.4	J-	ug/L	1.4	J	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	12	J-	ug/L	12		1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene, (1-methylpropyl)-	TIC	18	J	ug/L	18	J	1.0	Yes	NV
o-Cymene	TIC	10	J	ug/L	10	J	1.0	Yes	NV
Acetoacetic acid, 1-thio-, S-allyl	TIC	5.4	J	ug/L	5.4	J	1.0	Yes	NV
1-Methylcyclooctene	TIC	19	J	ug/L	19	J	1.0	Yes	NV
Benzene, 2-propenyl-	TIC	22	J	ug/L	22	J	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Benzene, propyl-	TIC	7.2	J	ug/L	7.2	J	1.0	Yes	NV
Benzene, 2-butenyl-	TIC	7.0	J	ug/L	7.0	J	1.0	Yes	NV
Benzene, 1-ethyl-3-methyl-	TIC	20	J	ug/L	20	J	1.0	Yes	NV
Total Alkanes	TIC	71	B	ug/L	71	B	1.0	Yes	NV
Benzene, 1-ethyl-2-methyl-	TIC	36	J	ug/L	36	J	1.0	Yes	NV
1H-Indene, octahydro-, cis-	TIC	14	J	ug/L	14	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED4	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/28/2016	Sample Time: 09:45:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	1.1	J	ug/L	1.1	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	1.5	J	ug/L	1.5	J	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	11		ug/L	11		1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
Acetoacetic acid, 1-thio-, S-allyl	TIC	5.6	J	ug/L	5.6	J	1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED5	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/27/2016	Sample Time: 11:00:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	6.9	J-	ug/L	6.9	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	95	J-	ug/L	95		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED6	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/27/2016	Sample Time: 12:15:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	6.1	J-	ug/L	6.1	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	1.3	J-	ug/L	1.3	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	1.5	J-	ug/L	1.5	J	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	19	J-	ug/L	19		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED7	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/26/2016	Sample Time: 08:45:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1.2	J-	ug/L	1.2	J	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	1.0	J-	ug/L	1.0	J	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	38	J-	ug/L	38		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED8	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/27/2016	Sample Time: 11:05:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	4.1	J-	ug/L	4.1	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	92	J-	ug/L	92		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5ED9	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 3.0	Sample Date: 07/27/2016	Sample Time: 09:50:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	2.4	J-	ug/L	2.4	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	1.6	J-	ug/L	1.6	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EE0	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: GW	pH: 7.0	Sample Date: 07/27/2016	Sample Time: 14:15:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1.5	J-	ug/L	1.5	J	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	4.6	J-	ug/L	4.6	J	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	130	J-	ug/L	130		1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: E5EE1	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: TB	pH: 5.0	Sample Date: 07/22/2016	Sample Time: 12:00:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	3.2	J-	ug/L	3.2	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: VBLK32	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: VBLK33	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: VBLK35	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: VBLK37	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46350	Contract: EPW14030	SDG No: E5EC6	Lab Code: CHM
Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

APPENDIX D

Table 1

Puritan Laundry Direct Push Ground Water Significant Hits Table

Table 2

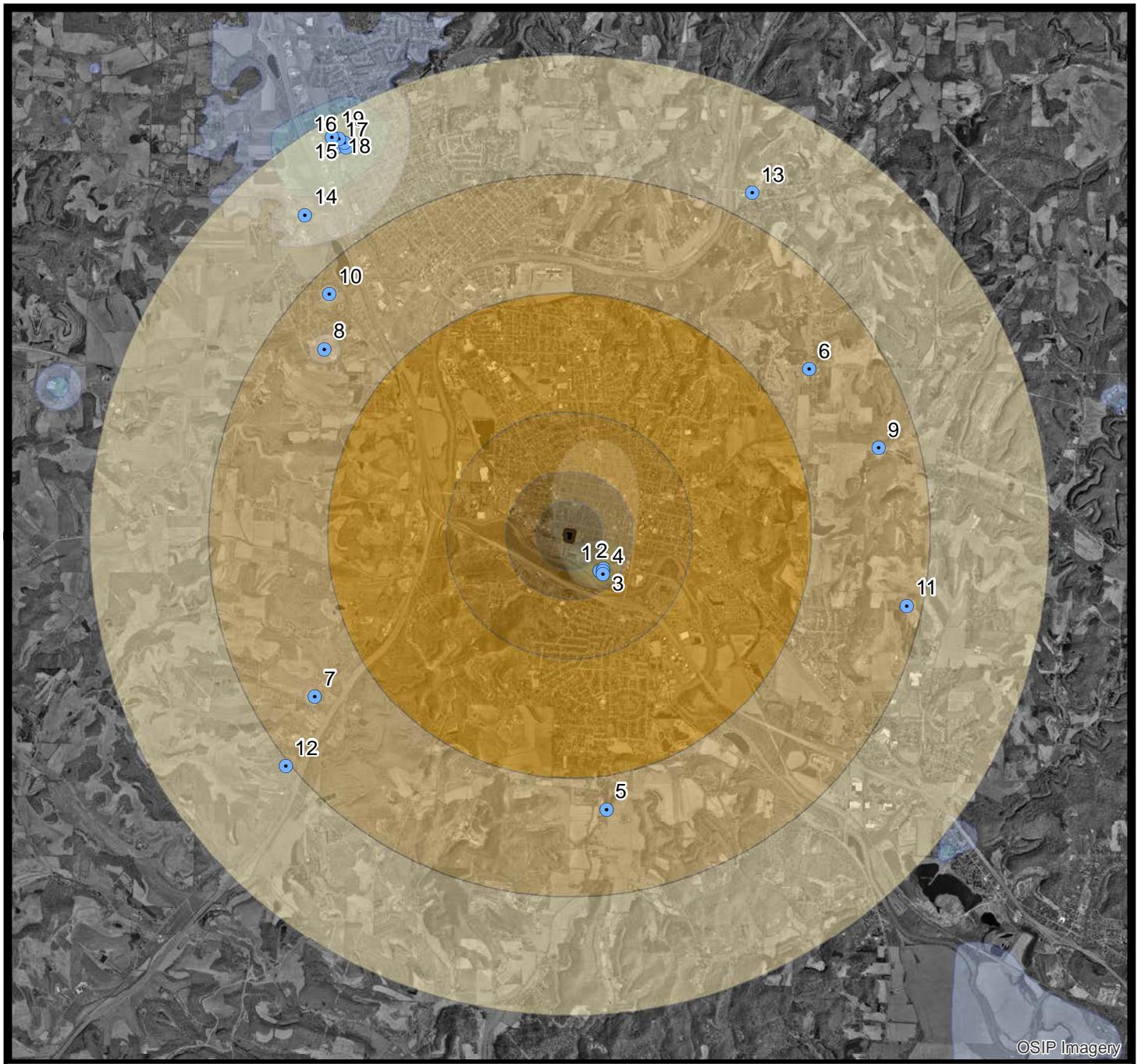
Puritan Laundry
Significant Hits Table
Production Wells

Location:		NP-PW-1	NP-PW-2	NP-PW3	NP-PW-4	PW-DUP
CLP Number:		E5EC1	E5EC2	E5EC3	E5EC4	E5EC5
DATE		7/27/2016	7/27/2016	7/27/2016	7/27/2016	7/27/2016
QA/QC:		MS/MSD				Dupe of NP-PW-4
Compound	CRQL	ug/L	ug/L	ug/L	ug/L	ug/L
cis-1,2-Dichloroethene	0.5		1.2			
Trichloroethene	0.5	1.8	7.3	0.98		
Tetrachloroethene	0.5		1.5		4.3	4.6
1,1,1-Trichloroethane	0.5					
Acetone	5				5	

Table 3

Puritan Laundry Direct Push Soil Significant Hits Table

APPENDIX E



0 0.375 0.75 1.5 Miles



Ohio State Plane South
9/1/2017

Puritan Laundry, Former -- Tuscarawas County Proximity to Population and Public Ground Water Systems

 Puritan Laundry Parcel

● Active PWS Wells

■ Inner Management Zones

■ Source Water Protection Area

Ground Water Pathway (in miles)

■ 0.25

■ 0.5

■ 1

■ 2

■ 3

■ 4

Population Data within a 4-Mile Radius

RADIUS (MILES)	TOTAL	WHITE	BLACK	INDIAN / ESKIMO	ASIAN	HAWAIIAN / PACIFIC	OTHER
0.00 - 0.25	746	666	17	3	1	12	26
0.25 - 0.50	1,925	1,732	23	33	6	25	51
0.5 - 1.0	9,826	6,431	69	15	29	17	120
1.0 - 2.0	9,779	9,297	107	37	58	24	121
2.0 - 3.0	7,365	6,790	134	53	24	70	162
3.0 - 4.0	7,107	6,943	18	7	46	6	23
TOTAL	36,748	31,859	368	148	164	154	503

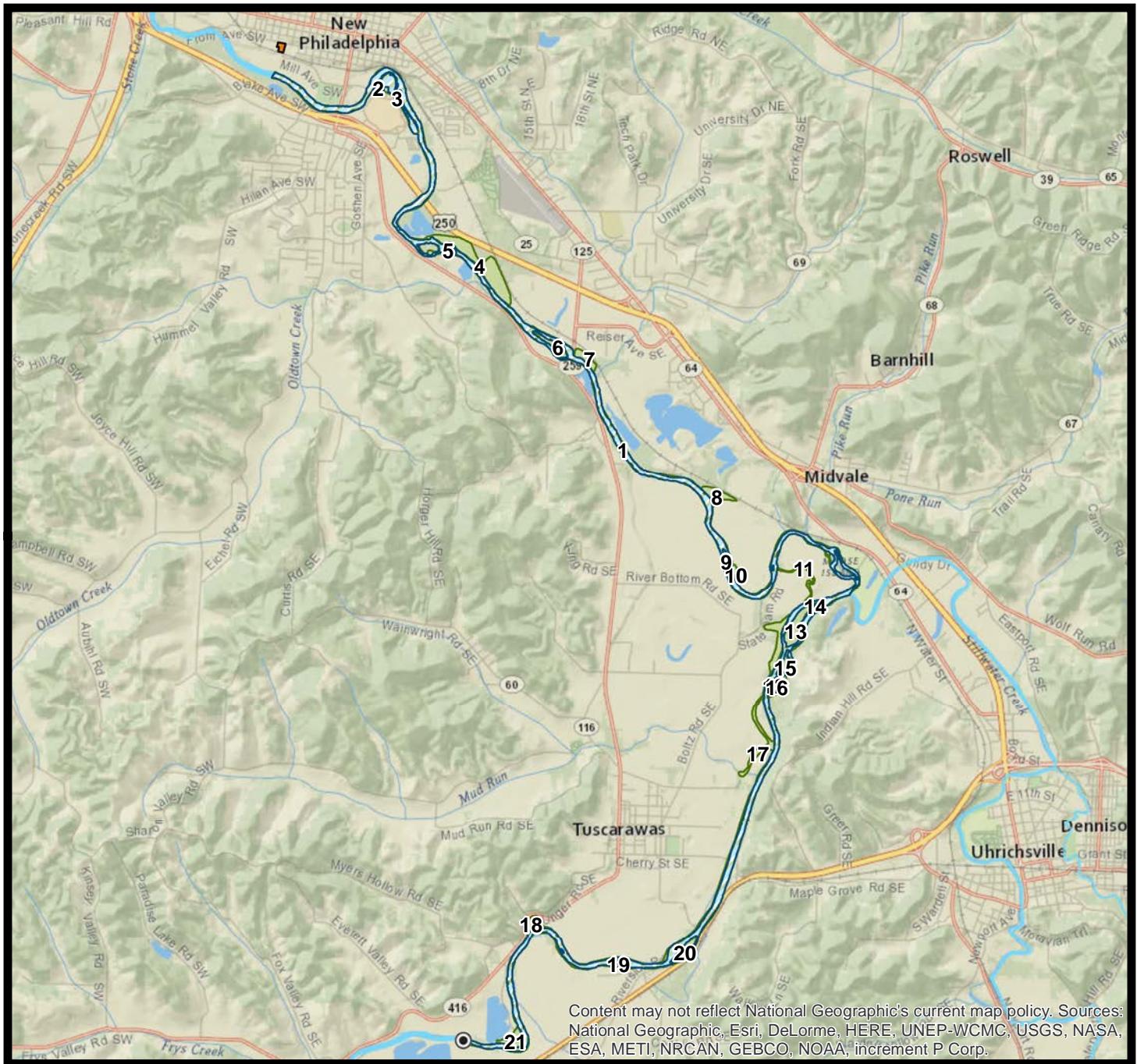
Total Population within a 1-Mile Radius: 12,497 people

Active Surface Water Intakes

DISTANCE (MILES)	MAP ID	PWS SYSTEM NAME	WATER BODY	PWS SYSTEM ID	POPULATION SERVED
NONE					

Active Ground Water System Wells

DISTANCE (MILES)	MAP ID	PWS SYSTEM ID	PWS SYSTEM NAME & WELL ID	PWS SYSTEM TYPE & STATUS	POPULATION SERVED
0.352	1	OH7900812	New Philadelphia, City Of Well 0004	Community -- Active	17,288
0.360	2	OH7900812	New Philadelphia, City Of Well 0003	Community -- Active	Counted under #1
0.371	3	OH7900812	New Philadelphia, City Of Well 0002	Community -- Active	Counted under #1
0.391	4	OH7900812	New Philadelphia,City Of Well 0001	Community -- Active	Counted under #1
2.283	5	OH7948512	Calvary Baptist Church Well 0002	Noncommunity -- Active	150
2.410	6	OH7950512	Faith Christian Church PWS Well 001	Noncommunity -- Active	200
2.499	7	OH7942012	York Elementary School Well 0001	Nontransient Noncomm.-- Active	180
2.546	8	OH7901912	Tusc. Co. Metro. Sewer Dist - Ridgewood -- Well 0001	Community -- Active	498
2.662	9	OH7937812	39 Outpost Well 0001	Noncommunity -- Active	75
2.818	10	OH7901912	Tusc. Co. Metro. Sewer Dist - Ridgewood -- Well 0002	Community -- Active	Counted under #8
2.871	11	OH7948212	Schoenbrunn Amphitheater Well 0002	Noncommunity -- Active	200
3.040	12	OH7941012	United Ch. Of Christ (a.k.a. Jerusalem Ch.) -- Well 0001	Noncommunity -- Active	200
3.227	13	OH7932812	La Cantina (a.k.a. Pointe Café) Well 0001	Noncommunity -- Active	70
3.453	14	OH7938312	Reese Trucking Inc. Well 0001	Noncommunity -- Active	40
3.722	15	OH7900412	Dover, City Of Well 0000	Community -- Active	12,826
3.7665	16	OH7900412	Dover, City Of Well 0007	Community -- Active	Counted under #15
3.7671	17	OH7900412	Dover, City Of Well 0011	Community -- Active	Counted under #15
3.817	18	OH7900412	Dover, City Of Well 0010	Community -- Active	Counted under #15
3.859	19	OH7900412	Dover, City Of Well 0012	Community -- Active	Counted under #15



0 0.375 0.75 1.5 Miles



Ohio State Plane South
9/1/2017

Puritan Laundry, Former -- Tuscarawas County Natural Heritage Data and Surface Water Systems

- Puritan Laundry Parcel
- 15-mile Surface Water Target Distance Limit
- Surface Water Pathway
- Wetlands
- Federal Endangered & Threatened Species
- State Endangered & Threatened Species
- Active Intakes for Public Water Systems

Wetland Data

MAP ID	WETLAND TYPE	LINEAR DISTANCE (MILES)
1	Riverine	0.035
2	Freshwater Pond	0.460
3	Freshwater Forested/Shrub Wetland	0.494
4	Freshwater Forested/Shrub Wetland	1.477
5	Freshwater Forested/Shrub Wetland	1.637
6	Freshwater Forested/Shrub Wetland	2.606
7	Freshwater Emergent Wetland	2.927
8	Freshwater Forested/Shrub Wetland	4.413
9	Freshwater Forested/Shrub Wetland	4.911
10	Freshwater Forested/Shrub Wetland	5.029
11	Riverine	5.292
12	Freshwater Forested/Shrub Wetland	5.568
13	Freshwater Forested/Shrub Wetland	5.657
14	Freshwater Forested/Shrub Wetland	5.704
15	Freshwater Forested/Shrub Wetland	5.845
16	Freshwater Forested/Shrub Wetland	5.937
17	Freshwater Forested/Shrub Wetland	5.996
18	Freshwater Forested/Shrub Wetland	6.802
19	Freshwater Forested/Shrub Wetland	7.331
20	Freshwater Forested/Shrub Wetland	7.400
21	Freshwater Forested/Shrub Wetland	7.621

Total Wetland Frontage: 36.787 Miles

Federal Endangered and Threatened Species

DISTANCE (MILES)	MAP ID	FEDERAL STATUS*	STATE STATUS*	SCIENTIFIC NAME	COMMON NAME
NONE					

State Endangered and Threatened Species

Column9	Column1	Column2	Column3	Column4	Column5
DISTANCE (MILES)	MAP ID	FEDERAL STATUS*	STATE STATUS*	SCIENTIFIC NAME	COMMON NAME
NONE					

*KEY:

E - Endangered

T - Threatened

LE - Listed Endangered

LT - Listed Threatened

X - Extirpated?